



MENADIONE SODIUM BISULFITE COMPLEX FEED GRADE

Date: 05.01.2015

Rev. No: 1 / US (ENG)

# 1. IDENTIFICATION

# 1.1. Product Identifier

-	Product Name	: Menadione Sodium Bisulfite Complex (MSBC)
-	Chemical Name	: 2 Methyl 1,4 maphtoquinone, 2 Sodyum
		bisulfite/1,2,3,4 tetrahydro-2 methyl-1, 4- dioxo-2
		Naphthalene Sulphonic acid Sodium Salt Compound
		with Sodium bisulfite
-	Chemical Formula	: C₁1H₀NaO₅S
-	CAS No	: 130-37-0
-	EINECS No	: 204-987-0

# 1.2. Relevant Identified Uses of The Substance and Uses Advised Against

Use for animal nutrition

# 1.3. Details of The Supplier of the Safety Data Sheet

- Name : OXYVIT Kimya San. Ve Tic. A.Ş.
- Address : Mersin Tarsus Organize Sanayi Bölgesi 1. Cadde No:6 Mersin/TURKEY
- **Phone** : +90 324 676 43 25 (5 lines)
- E-mail : <u>oxyvit@sisecam.com</u>
- 1.4. Emergency Phone Numbers: + 90 324 676 43 25 (24 hours)

# 2. HAZARDS IDENTIFICATION

# 2.1. Classification of the Substance (Globally Harmonized System)

# Signal Word

Warning

**Pictograms** 







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# Hazard Class& Statement

- H315 : Causes skin irritation
- **H319** : Causes serious eye irritation
- **H410** : Very toxic the aquatic life with long lasting effects

# Precautionary Statements

**P273:** Avoid release to the environment

**P280:** Wear protective gloves/protective clothing/face protection

P302 + 352: IF ON SKIN: Wash with plenty of soap and water

**P305 + 351 + 338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

P332 + 313: If skin irritation occurs: Get medical advice/attention

**P337 + 313:** Get medical advice/attention

**P362:** Take off contaminated clothing and wash before reuse

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	%	CAS No	EINECS No
Menadione Sodium Bisulfite	65-67	130-37-0	204-987-0
Sodium metabisulfite	33-35	7681-57-4	231-673-0

# 4. FIRST AID MEASURES

#### Skin Contact

Symptoms and effects: Cause serious skin irritation with dermatitis

**First aid measure:** Immediately remove contaminated clothing. Immediately wash with plenty amount of water. Use anti-irritation cream.

#### Eye Contact

Symptoms and effects: Cause serious eye damage/irritation

**First aid measure:** Immediately flush eyes with plenty of cool running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure sensing of the entire surface of the eyes and lids with water. If eye irritation persists, seek medical advice.

#### **Inhalation**

Symptoms and effects: Inhalation of dust can irritate the respiratory tract.

**First aid measure:** Remove victim to fresh air. Flush nose and mouth. Seek medical advice.





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# Ingestion:

Symptoms and effects: May irritates the gastrointestinal tract.

First aid measure: Do not induce vomiting. Call a poison center or doctor/physician if you feel unwell.

# 5. FIRE FIGHTING MEASURES

#### 5.1. Extinguishing Media

Suitable extinguishing media: Water spray, CO<sub>2</sub>, foam and dry chemical

### Unsuitable extinguishing media: None

### 5.2. Special Hazards Arising from the Substance

Product may form irritant menadione vapors and toxic fumes due to presence of CO,  $NO_{x}$  and  $SO_{x}$ 

### **5.3. Advice for Firefighters**

Wear complete fire fighting gear, including approved protective gloves, eye protection and self-contained breathing apparatus. Wash clothing before reuse

#### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

#### For non-emergency personnel

Use dust proof goggles. Do not wear contact lenses with out proper eye protection. Wear rubber or PVC gloves. Use dust mask type P2.

#### For emergency responders

Use self-contained breathing apparatus, in case of significant or accidental dust and toxic fumes emissions.

#### 6.2. Environmental precautions

Sweep up residual material. Do not flush into surface water or sanitary sewer system. Dispose of waste in accordance with applicable federal, state and local environmental laws and regulations.

#### 6.3. Methods for cleaning up

- Sweep and shovel into suitable containers for disposal
- Avoid dust formation
- Keep in properly labeled containers





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- Keep in suitable, closed containers for disposal

# 7. HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

- Keep this product cool and dry
- Avoid dust formation
- Wash thoroughly after handling
- Avoid skin and eye contact
- Refer to protective measures listed in sections 7 and 8

### 7.2. Conditions for Safe Storage

- Keep product cool, dry and well ventilated place
- Store product in its original container
- Keep container closed

# 8. EXPOSURE CONTROL/PERSONAL PROTECTION

#### 8.1. Control Parameters

PEL : Not applicable
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ACGIH : Not applicable TLV : Not applicable

#### 8.2. Engineering controls:

- Ensure adequate ventilation
- Avoid dust formation
- Provide appropriate exhaust ventilation at places where dust formed

#### Environmental exposure controls

Sweep up residual material. Do not flush into surface water or sanitary sewer system. Dispose of waste in accordance with applicable federal, state and local environmental laws and regulations.

#### 8.3. Individual Protection Measures

#### • Eye protection

Dust proof goggles. Do not wear contact lenses without proper eye protection.

# • Skin Protection

#### - Hand protection

Wear rubber or PVC gloves. For solutions, wear acid impervious gloves.





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# - Skin and body protection:

Rubber coated clothing, rubber apron and boots

### Respiratory protection

Dust mask type P2.

### Hygiene measures

- Do not eat, drink or smoke while using
- Wash hands before breaks and at the end of workday
- Avoid dust formation

# 9. PHYSICAL AND CHEMICAL PROPERTIES

<ul> <li>White to creamish crystalline powder</li> <li>4.5 - 7.0 (solution 10% water)</li> <li>not applicable</li> <li>not applicable</li> <li>not flammable</li> <li>not explosive</li> <li>non oxidizer</li> <li>not applicable</li> <li>highly soluble in water (1 g in 2 ml water)</li> <li>not applicable</li> <li>not applicable</li> <li>276</li> </ul>
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# **10. STABILITY AND REACTIVITY**

## 10.1. Reactivity

The product reacts with strong oxidation agents, acids and basis

## 10.2. Chemical Stability

Stable under recommended storage conditions (section 7)

### **10.3. Possibility of Hazardous Reactions**

The product reacts with strong oxidation agents, acids and basis

# 10.4. Conditions to avoid

Light, heat and moisture





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# **10.5. Incompatible Materials**

Strong oxidation agents, acids and basis

### **10.6. Hazardous decomposition products**

Irritant menadione vapours and fumes containing CO, CO<sub>2</sub>, NO<sub>x</sub> and SO<sub>x</sub> are produced respectively by thermal decomposition or when product burns.

### 11. TOXICOLOGICAL INFORMATION

### **Toxicological Data**

- Acute oral toxicity
- Acute inhalation toxicity
- Acute dermal toxicity
- Skin irritation
- Eve irritation
- Sensitization
- Chronic toxicity
- Genetic toxicity
- Teratogenicty
- Carcinogenicity

- : LD<sub>50</sub> (oral rat) > 2000 mg/kg
- : no information is available
- : no information is available
- : rabbit, mild skin
- : rabbit, mild eye irritation
- : no information is available
- : no information is available
- : no mutagenic effects
- : no teratogenic effects
- : not carcinogenic

# Health Effects

- Inhalation : Irritating to respiratory system
- Eye contact : Irritating to eyes
- Skin Contact : Irritating to skin
  - **Ingestion** : May cause gastrointestinal irritation

# **12. ECOLOGICAL INFORMATION**

- 12.1. Ecotoxicity: Very toxic the aquatic life with long lasting effects
- **12.2. Persistence and Degradability:** No information is available
- **12.3. Bioaccumulative Potential:** No information is available
- **12.4. Mobility:** No information is available

#### 12.5. Other adverse effects:

- Slightly soluble in water
- Product is not a PBT substance
- Do not allow to enter waters, wastewater or soil





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# 13. DISPOSAL CONSIDERATIONS

- In case of small quantities flush with plenty amount of water
- In case of consistent amount, collect spilled product in a closed container

: not regulated

: not regulated

: not regulated

- Dispose in accordance with local and national regulations

### 14. TRANSPORT INFORMATION

- Sea (IMO/IMDG)
- Air (ICAO/IATA)
- European Road/Rail (ADR/RID)

### **15. REGULATORY INFORMATION**

Globally Harmonized System



Warning

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### **16. OTHER INFORMATION**

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