

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 07/27/2015 Version: 1.0

## **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : Markey 4.5% Iron EDTA CAS No Solution : 15708-41-5

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

MarVista Resources 745 North Ave. Corcoran, Ca. 93212 - USA T 559-992-4535

#### 1.4. Emergency telephone number

Emergency number : 24 Hour Emergency Response Chemtrec: 1-800-424-9300

# SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

## **Classification (GHS-US)**

Not classified

#### 2.2. Label elements

### **GHS-US** labeling

No labeling applicable

### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
ammonia, 10%<=conc<25%, aqueous solutions	(CAS No) 1336-21-6	5 - 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Aquatic Acute 1, H400
Ammonium Citrate Tribasic	(CAS No) 3458-72-8	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2B, H320

Full text of H-phrases: see section 16

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after inhalation : May cause slight irritation.

Symptoms/injuries after skin contact : May cause slight irritation to the skin.

Symptoms/injuries after eye contact : May cause slight irritation.

Symptoms/injuries after ingestion : May cause gastrointestinal discomfort.

02/22/2017 EN (English US) Page 1

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

## 5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard. Explosion hazard : Not applicable.

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8 Exposure controls/personal protection" ".

#### 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

For containment : Dam up the liquid spill.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection"".

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Incompatible products : Strong oxidizers.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

ammonia, 10%<=conc<25%, aqueous solutions (1336-21-6)		
ACGIH	ACGIH TWA (ppm)	25 ppm
ACGIH	ACGIH STEL (ppm)	25 ppm

#### Ammonium Citrate Tribasic (3458-72-8)

Not applicable

# 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Protective gloves. Eye protection : Safety glasses.

02/22/2017 EN (English US) 2/5

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

: No data available

Environmental exposure controls : Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Color dark red Ammonia odour Odor Odor threshold : No data available : 7.5 (7 - 8.5) Ha Melting point : Not applicable Freezing point No data available : > 100 °C Boiling point Flash point : Not Applicable

Flammability (solid, gas) : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Vapor pressure : No data available
Relative density : No data available
Relative vapor density at 20 °C : No data available

Specific gravity / density : 1.18 g/ml

Relative evaporation rate (butyl acetate=1)

Solubility : No data available
Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Strong oxidizers.

#### 10.6. Hazardous decomposition products

No additional information available

## **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

02/22/2017 EN (English US) 3/5

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,
ammonia, 10%<=conc<25%, aqueous solutions (1336-21-6)	
LD50 oral rat	350 mg/kg
ATE US (oral)	350.000 mg/kg body weight
Skin corrosion/irritation	: Not classified.
	pH: 7.5 (7 - 8.5)
Serious eye damage/irritation	: Not classified
	pH: 7.5 (7 - 8.5)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact	<ul><li>: May cause slight irritation.</li><li>: May cause slight irritation to the skin.</li><li>: May cause slight irritation.</li></ul>

# **SECTION 12: Ecological information**

Symptoms/injuries after ingestion

## 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

: May cause gastrointestinal discomfort.

effects in the environment.

# 12.2. Persistence and degradability

ammonia, 10%<=conc<25%, aqueous solutions (1336-21-6)	
Persistence and degradability	Readily biodegradable in water. Ozonation in water. Biodegradable in the soil. No (test)data
	on mobility of the components available. Ozonation in the air.

### 12.3. Bioaccumulative potential

ammonia, 10%<=conc<25%, aqueous solutions (1336-21-6)	
Log Pow	-1.14
Bioaccumulative potential	Bioaccumulation: not applicable.

## 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

# SECTION 13: Disposal considerations

# 13.1. Waste treatment methods

Sewage disposal recommendations : Prevent liquid from entering sewers, watercourses, underground or low areas. Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

## **SECTION 14: Transport information**

# **Department of Transportation (DOT)**

In accordance with DOT Not regulated for transport

TDG

No additional information available

02/22/2017 EN (English US) 4/5

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### 4.5% Iron EDTA Solution (15708-41-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## ammonia, 10%<=conc<25%, aqueous solutions (1336-21-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

CERCLA RQ 1000

### **Ammonium Citrate Tribasic (3458-72-8)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

# 15.3. US State regulations

# ammonia, 10%<=conc<25%, aqueous solutions (1336-21-6)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# **SECTION 16: Other information**

### Full text of H-phrases:

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H320	Causes eye irritation
H400	Very toxic to aquatic life

### **HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high

temperatures and pressures. Materials may react non-violently with water or undergo

hazardous polymerization in the absence of inhibitors.

SDS US (GHS HazCom 2012)

All information contained in this Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other informations gathered by you, and you must make independent determinations of the suitability and completeness of the information from all souces to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee is expressed or implied as to the results to be obtained based upon your use of the information.

02/22/2017 EN (English US) 5/5