



# SAFETY DATA SHEET

Version 1

## 1. Identification of the Substance / Preparation and of the Company / Undertaking

**Product Name:** Marco MicroPack  
**Recommended Use** Agricultural Applications or Further Manufacturing Use  
**Manufacturer**  
Marco NPK Inc. 201 E. Benton St. PO Box 477, Clinton, IL 61727 (217-935-2178)  
**Emergency Telephone:**  
217-935-2178

## 2. Hazards Identification

### GHS - Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3



**Signal Word:** Warning

#### Hazard Statements:

- Causes skin irritation
- Causes serious eye irritation
- May cause respiratory irritation. May cause drowsiness or dizziness

#### Physical Hazards

#### Precautionary Statements:

- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves
- If eye irritation persists: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Dispose of contents/ container to an approved waste disposal plant
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 - Call a POISON CENTER or doctor if you feel unwell
- Store in a well-ventilated place. Keep container tightly closed
- Store locked up
- Use only outdoors or in a well-ventilated area

## 3. Composition / Information on Ingredients

### Hazardous

Chemical name	CAS No.	Weight-%	EC No
Trade Secret	-	7-11%	Not Listed
Trade Secret	-	19-25%	Listed
Trade Secret	-	13-16	Listed

## Non-Hazardous

Chemical name	CAS No.	Weight-%	EC No
Trade Secret	-	48-61%	Listed

**4. First Aid Measures**Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
<b><u>Most important symptoms and effects, both acute and delayed</u></b>	
<b>Symptoms</b>	Burning sensation.
<b><u>Indication of any immediate medical attention and special treatment needed</u></b>	
<b>Note to physicians</b>	Treat symptomatically.

**5. Fire-fighting Measures**

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	No information available.
<b>Explosion Data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b><u>Methods and material for containment and cleaning up</u></b>	
<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers.

**7. Handling and Storage****Precautions for safe handling**

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
<b><u>Conditions for safe storage, including any incompatibilities</u></b>	

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
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**8. Exposure Controls / Personal Protection**

**Control parameters****Exposure Limits**

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Trade Secret	No data available	(vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 500 mg/m <sup>3</sup> Mn TWA: 1 mg/m <sup>3</sup> Mn STEL: 3 mg/m <sup>3</sup> Mn

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection**

Wear suitable gloves. Impervious gloves.

**Skin and body protection**

Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**

Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

**9. Physical and Chemical Properties****9.1. Information on basic physical and chemical properties****Physical State:**

Liquid

**Appearance:**

No information available

**Color:**

Dark brown to black

**Odor:**

No information available

**Odor Threshold:**

No information available

**Property****Values****Remarks • Method****pH:**

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pH Range: 7.0-9.0

**"Salt Out" Point (°F):**

No information available

**Melting Point/Freezing Point:**

No information available

**Boiling Point/Boiling Range:**

No information available

**Flash Point:**

No information available

**Evaporation Rate (BuAc=1):**

No information available

**Flammability (solid, gas):**

No information available

**Flammability Limits in Air:**

No information available

**Upper Flammability Limit:**

**Lower Flammability Limit:**

**Vapor Pressure (mm Hg) :**

No information available

**Vapor density (Air =1)**

No information available

**Specific Gravity (H<sub>2</sub>O=1):**

1.234

**Specific Gravity (2nd value):****Water Solubility:**

No information available

**Solubility(ies):**

No information available

**Partition Coefficient**

No information available

**(n-octanol/water)****Autoignition Temperature:**

No information available

**Decomposition Temperature:**

No information available

**Kinematic Viscosity:**

No information available

**Dynamic Viscosity:**

No information available

**Oxidizing Properties:**

No information available

**Explosive Properties:**

No information available

**9.2. Other information****Softening Point:**

No information available

<b>Molecular Weight:</b>	No information available
<b>VOC Content(%):</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk density</b>	No information available

## 10. Stability and Reactivity

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	None known based on information supplied.
<b>Incompatible Materials</b>	Strong acids. Strong bases. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	None known based on information supplied.

## 11. Toxicological Information

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes.

### Numerical measures of toxicity

No information available

#### Acute Toxicity:

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 29,200.00 mg/kg

**Unknown Acute toxicity** 52 % of the mixture consists of ingredient(s) of unknown toxicity

- 27 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 52 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 52 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 52 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 52 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Component Information

Chemical name	Oral LD <sub>50</sub> :	Dermal LD <sub>50</sub> :	LC <sub>50</sub> (Lethal Concentration):
Trade Secret	> 90 mL/kg ( Rat )	-	-
Trade Secret	= 10 g/kg ( Rat )	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Irritating to eyes.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.

<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects:</b>	Kidney, Respiratory system, Central nervous system, Blood.
<b>Other Adverse Effects:</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## 12. Ecological Information

<b>Ecotoxicity</b>	The environmental impact of this product has not been fully investigated.
<b>Persistence and Degradability:</b>	No information available.
<b>Bioaccumulation:</b>	There is no data for this product.
<b>Other Adverse Effects:</b>	No information available.

## 13. Disposal Considerations

### Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.

## 14. Transport Information

<b>DOT</b>	
Description	Not DOT Regulated

## 15. Regulatory Information

### International Inventories

<b>AICS</b>	-
<b>TSCA</b>	-
<b>DSL/NDSL</b>	-
<b>EINECS/ELINCS</b>	-
<b>ENCS</b>	-
<b>IECSC</b>	-
<b>KECL</b>	-
<b>PICCS</b>	-

Chemical name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Trade Secret	Listed	Listed	Listed	-	Listed	-	-	Listed	KE-35400	Present
Trade Secret	Listed	Listed	Listed	-	Listed	-	(2)-1265	Listed	KE-13649	Present
Trade Secret	-	-	-	-	Present	-	-	-	-	-

### Inventory Legend

**AICS** - Australian Inventory of Chemical Substances  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances

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**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**RESTRICTIONS - REACH TITLE VII** No information available

### US Federal Regulations

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

<b>Acute health hazard</b>	Yes
<b>Chronic health hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive hazard</b>	No

### U.S. State Right-to-Know Regulations

#### **California Proposition 65:**

This product does not contain any Proposition 65 chemicals

## 16. Other Information

### National Fire Protection Association (NFPA) Ratings

**Prepared By:** HSE Department

**Issue Date:** 26-Nov-2018

**Revision Date:** 26-Nov-2018

**Revision Note:** New Product

#### Disclaimer:

PLEASE BE ADVISED THAT IT IS YOUR RESPONSIBILITY TO INFORM YOUR EMPLOYEES OF THE HAZARDS OF THIS SUBSTANCE, TO ADVISE THEM OF WHAT THESE PROPERTIES MEAN AND BE SURE THEY UNDERSTAND EXPOSURE INFORMATION. THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION.

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**End of Safety Data Sheet**