



## SAFETY DATA SHEET

# ARMOR Wrap® 30 Regular VCI Paper

### 1. Identification

#### Product identifier

**Product Name** ARMOR Wrap 30 Regular VCI Paper

#### Other means of identification

**SDS #** APPAC-011-MX

#### Recommended use of the chemical and restrictions on use

**Recommended Use** For industrial use

#### Restrictions on Use

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

##### **Manufacturer Address**

Armor Protective Packaging  
1551 North Burkhart Rd  
Howell, MI 48855  
Phone: 1-517-546-1117  
Fax: 1-517-546-6434

#### Emergency telephone number

**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

### 2. Hazard(s) identification

#### Classification

This chemical does not meet the hazardous criteria set forth by the NOM-018-STPS-2015, Harmonized System for the Identification and Communication of Hazards and Risks of Hazardous Chemicals in the Workplace. However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

#### Label elements

##### Signal word

None

##### Other Information

Toxic to aquatic life with long lasting effects

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### 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No.	Weight-%
Sodium Nitrite	7632-00-0	1-5
Glycerol	56-81-5	0.1-1

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

#### Description of first aid measures

<b>General advice</b>	Provide this SDS to medical personnel for treatment.
<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Call a POISON CENTER or doctor if you feel unwell.

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

**Symptoms.** See Section 11 for additional Toxicological Information

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

**Note to physicians** 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>Unsuitable extinguishing media</b>	Not determined.
<b>Specific hazards arising from the chemical</b>	Not determined.

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### Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

**Special protective actions for fire-fighters** 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

**Personal precautions** Use personal protective equipment as required.

### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep in a dry, cool and well-ventilated place.

## 8. Exposure controls/personal protection

### Control parameters

### Exposure Limits

Chemical name	TWA	STEL	Ceiling Limit Value
Glycerol	10 mg/m <sup>3</sup>	-	-

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56-81-5			
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**Appropriate engineering controls**

**Engineering controls**                      Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**                      Avoid contact with eyes.

**Skin and body protection**                Wear suitable protective clothing.

**Respiratory protection**                  Ensure adequate ventilation, especially in confined areas.

**General hygiene considerations**      Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and chemical properties**

**Information on basic physical and chemical properties**

**Physical state**                                Solid containing liquid  
**Appearance**                                Kraft Paper / Rolls or Sheets  
**Color**    Tan/brown  
**Odor**     Ammoniacal  
**Odor Threshold**                            Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	6.5-7.8	
<b>Melting point / freezing point</b>	No data available	
<b>Boiling point / boiling range</b>	No data available	
<b>Flash point</b>	No data available	
<b>Evaporation Rate</b>	No data available	
<b>Flammability (Solid, Gas)</b>	No data available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor Pressure</b>	No data available	
<b>Vapor Density</b>	No data available	
<b>Relative Density</b>	No data available	
<b>Water Solubility</b>	Soluble in water	
<b>Solubility in other solvents</b>	No data available	
<b>Partition Coefficient</b>	No data available	
<b>Autoignition temperature</b>	No data available	
<b>Decomposition temperature</b>	No data available	
<b>Kinematic viscosity</b>	No data available	
<b>Dynamic Viscosity</b>	No data available	



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### Other information

Oxidizing properties	No data available
Explosive properties	No data available
Molecular weight	No data available
Liquid Density	No data available
Bulk density	No data available

## 10. Stability and reactivity

Reactivity	Not reactive under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to Avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Do not inhale.
Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Ingestion	Do not ingest.

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

Symptoms	None known.
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### Acute toxicity

#### Numerical measures of toxicity

Not determined

### Component Information

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Nitrite 7632-00-0	= 85 mg/kg ( Rat )	-	= 5.5 mg/L ( Rat ) 4 h
Urea 57-13-6	= 8471 mg/kg ( Rat )	-	-
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-
Sodium benzoate 532-32-1	= 4070 mg/kg ( Rat )	-	-
Glycerol 56-81-5	= 12600 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	> 570 mg/m <sup>3</sup> ( Rat ) 1 h

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

**Interactive effects** Not classified.

**Skin corrosion/irritation** Not classified.

**Serious eye damage/eye irritation** Not classified.

**Respiratory or skin sensitization** Not classified.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** Nitrate or nitrite ingested under conditions that result in endogenous nitrosation are considered IARC group 2A carcinogens.

Chemical name	ACGIH	IARC	NTP	Mexico
Sodium Nitrite 7632-00-0	-	Group 2A	-	-

#### Legend

**IARC (International Agency for Research on Cancer)**

Group 2A - Probably Carcinogenic to Humans

**Reproductive toxicity** Not classified.

**STOT - single exposure** Not classified.

**STOT - repeated exposure** Not classified.

**Aspiration hazard** Not classified.

**Other information** Not classified.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea

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			microorganisms	
Sodium Nitrite 7632-00-0	-	2.3: 96 h Pimephales promelas mg/L LC50 flow-through 0.092 - 0.13: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 20: 96 h Pimephales promelas mg/L LC50 static 0.65 - 1: 96 h Oncorhynchus mykiss mg/L LC50 static 0.19: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.4 - 0.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	-	-
Urea 57-13-6	-	16200 - 18300: 96 h Poecilia reticulata mg/L LC50	-	10000: 24 h Daphnia magna Straus mg/L EC50 3910: 48 h Daphnia magna mg/L EC50 Static
Sodium benzoate 532-32-1	-	100: 96 h Pimephales promelas mg/L LC50 static 420 - 558: 96 h Pimephales promelas mg/L LC50 flow-through	-	650: 48 h Daphnia magna mg/L EC50
Glycerol 56-81-5	-	51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	-	500: 24 h Daphnia magna mg/L EC50

**Persistence/Degradability** No data available.

**Bioaccumulation** No data available.

Chemical name	Partition coefficient
Sodium Nitrite 7632-00-0	-3.7
Glycerol 56-81-5	-1.76

**Other Adverse Effects** No data available.

### 13. Disposal considerations

#### Waste Treatment Methods

**Waste from residues/unused** Dispose of waste in accordance with environmental legislation. Dispose of in accordance

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**products** with local regulations.

**Contaminated packaging** Do not reuse empty containers.

#### 14. Transport information

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

**MEX** Not regulated

**TDG** Not regulated

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

#### 15. Regulatory information

##### REGULATORY INFORMATION

##### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

##### International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Wood Pulp	X	X	X		X	X	X	X
Sodium Nitrite	X	X	X	X	X	X	X	X
Urea	X	X	X	X	X	X	X	X
Water	X	X	X		X	X	X	X
Sodium benzoate	X	X	X	X	X	X	X	X
Glycerol	X	X	X	X	X	X	X	X

##### **Legend:**

**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

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

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AICS - Australian Inventory of Chemical Substances

### 16. Other information

<b>NFPA</b>	<b>Health hazards</b> Not determined	<b>Flammability</b> Not determined	<b>Instability</b> Not determined	<b>Physical and chemical properties</b> Not determined
<b>HMIS</b>	<b>Health hazards</b> Not determined	<b>Flammability</b> Not determined	<b>Physical hazards</b> Not determined	<b>Personal protection</b> Not determined

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

#### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

**Issue Date:** 28-Sep-2018

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**Revision Note:** New format.

#### **NOM-018-STPS-2015**

**The information is believed to be accurate, but it is not exhaustive and must be used only as guidance. It is based on the current state of knowledge of the chemical substance or mixture and is applicable to the appropriate safety precautions for the product.**

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### Disclaimer

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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**

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