

# **Product Data Sheet**

The products referenced herein are "articles" under 29 CFR 1910.1200(c) and are <u>not</u> subject to OSHA's requirements for material safety data sheets under its Hazard Communication Standard, 29 CFR 1910.1200. This Product Data Sheet is provided as a service to our customers.

# **Section I - Product and Company Information**

Identity: Nickel Cadmium (NiCd) Batteries

Models: Al

Effective Date: March 17, 2018

<u>Manufacturer</u>

Motorola Solutions, Inc. 500 W. Monroe Street Chicago, Illinois 60661 USA

Phone: 1-847-576-5000

#### Section II - Hazards Identification

Potentially hazardous materials are fully contained in a hermetically sealed case designed to withstand normal handling and use. Exposure could occur only if the battery or cells have been opened, disassembled, crushed, burned, exposed to high temperatures (> 60° C or 140° F), or subjected to other types of abuse. Exposure to cell contents may be harmful under some circumstances.

Follow instructions and precautions for safe use of the battery pack.

## Section III - Composition Information

Motorola Solutions battery packs contain NiCd cells from various manufacturers. NiCd cells are generally composed of the following major ingredients:

Cell component	Common chemical name / General name	CAS number	Concentration range
Positive electrode	Nickel metal	7440-02-0	8-20%
	Nickel hydroxide	12054-48-7	5-15%
Negative electrode	Cadmium metal	7440-43-9	10-27%
	Cadmium hydroxide	21041-95-2	10-27%
Electrolyte	Potassium hydroxide Sodium hydroxide	1310-58-3 1310-73-2	< 5%
Other components	Nylon Polypropylene	n/a	< 3%
	Steel	n/a	10-15%

#### Section IV - First Aid Measures

Cell manufacturers recommend that in case of exposure to cell contents, wash affected area for at least 15 minutes with generous amounts of water and seek medical attention. The electrolyte is caustic and exposure may cause severe irritation or chemical burns.

#### Section V - Firefighting Measures

Fires involving these types of battery packs should be flooded with any available extinguishing media. Fires involving large quantities of batteries may produce toxic, corrosive, or irritating fumes.

#### Section VI - Accidental Release Measures

If batteries are spilled and damaged, they should be disposed of according to the disposal section.

#### Section VII - Handling and Storage

The battery pack and enclosed cells should not be opened, disassembled, crushed, burned, or exposed to high temperatures (> 60° C or 140° F).

#### Section VIII – Exposure Controls / Personal Protection

No personal protection is required during normal handling and use. Exposure to the ingredients contained within the cells within the battery pack could be harmful under some circumstances. In case of exposure to cell contents, wash affected area for at least 15 minutes with generous amounts of water and seek medical attention.

## Section IX - Physical and Chemical Properties

These batteries are solid articles. Properties such as odor, pH, vapor pressure, solubility, etc. are not applicable.

## Section X – Stability and Reactivity

Reactivity
Incompatibility
None during normal handling and use

Conditions to Avoid The battery pack and enclosed cells should not be opened, disassembled, crushed, burned, or

exposed to high temperatures.

## Section XI – Toxicological Information

There are no known toxicological properties of the batteries during normal handling and use.

## Section XII – Ecological Information

There are no known ecological risks of the batteries during normal handling and use.

## Section XIII - Disposal

All NiCd batteries are classified as a Hazardous Waste because of the presence of Cadmium. The materials contained within are classified as a hazardous waste because of toxicity, not corrosiveness and therefore must be disposed of properly. Motorola Solutions NiCd batteries contain recyclable materials. Recycling options available in your local area should be considered when disposing of this product. Do not dispose of in fire.

# Section XIV - Transport Information

Motorola Solutions sealed NiCd battery packs are considered to be "dry cell" batteries and are not subject to dangerous goods regulations for purposes of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA), International Maritime Dangerous Goods regulations (IMDG) and the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). When packaged and shipped by Motorola Solutions, Inc., these batteries are not subject to the dangerous goods regulations as they are compliant with the requirements contained in the following special provisions.

Regulatory Body	Special Provisions	
IATA / ICAO	SP A123	
IMDG	Not Regulated	
US DOT	49 CFR 172.102 SP 130	
TDG	Not Regulated	
ADR	Not Regulated	
UN Model	Not Regulated	

In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued. The requirements for shipping these batteries, in all modes of transportation, are that they be separated from each other to prevent short-circuits and to prevent movement that could lead to short-circuits. Products must also be packed in strong packaging that can withstand the rigors normal to transportation.

For emergencies involving Motorola Solutions battery products, call CHEMTREC at 1-800-424-9300.

## Section XV - Regulatory Information

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#### Section XVI – Other Information

Notice: The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Motorola Solutions makes no warranty expressed or implied with respect to this information and recommendations and disclaims all liability from reliance on it.