

Reference: WK25-00013

Date: 19 - 08 - 2021

# MATERIAL DATA SAFETY SHEET



## **Section 1: IDENTIFICATION**

**Product Identifier:** WK13-00013 Battery for SIP Products 09267 09269 & 09279

**Relevant identified uses of the substance or mixture and uses:**

Lithium-Ion 18v 5200mAh 93.6Wh Rechargeable Battery Pack

**Details of the supplier of the safety data sheet.**

**Supplier:**

SIP (Industrial Products) Ltd

Gelders Hall Road

Shepshed

Leicestershire

LE12 9NH

United Kingdom

Tel: +44 (0) 1509 500300

Fax: +44 (0) 1509 503154

Email: technical@sip-group.com

**Emergency telephone number:** 0044 (0)1509 500400

## **Section 2: HAZARDS IDENTIFICATION**

**Skin Contact, Skin Absorption, Eye Contact, Inhalation and Ingestion:** NO

**Symptoms of Exposure:** No

**Skin contact:** No effect under routine handling and use.

**Eye Contact:** No effect under routine handling and use.

**Inhalation:** No effect under routine handling and use.

**Reported as Carcinogen:** N/A

This product described in this Product Safety Data Sheet are sealed units which are not hazardous when according to the recommendations of the manufacturer and as long as their integrity is maintained.

Do not open, puncture, incinerate, crush, deform, disassemble, force discharge, expose to water, or expose to temperatures above the declared operating temperature range of the product.

Fire, explosion and severe burns hazards may occur in such abuse conditions.

Keep this product away from small children. International Standard IEC 60086-4 contains more detailed information on the safety of lithium batteries.

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## **Section 3: COMPOSITION / INFORMATION / INGREDIENTS**

<b>Component</b>	<b>CAS Number</b>	<b>Weight %</b>
Lithium nickel cobalt manganese oxide	12190-79-3	38%
Aluminium	7429-90-5	5.5%
Graphite	7782-42-5	21%
Carbon Black	1333-86-4	1%
Ethyl Methyl Carbonate	623-53-0	12%
Copper	7440-50-8	18.5%
Nickel	7440-02-0	1%
Lithium hexafluorophosphates	21324-40-3	3%

## **Section 4: FIRST AID MEASURES**

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. Remove contaminated clothing and wash before re-use. In severe cases obtain medical attention.

**Skin Contact:** Immediately wash off with plenty of water for at least 15 minutes. Remove contaminated clothing and wash before re-use. In severe cases obtain medical attention.

**Inhalation:** Leave area immediately and move to fresh air. If needed, give oxygen

**Ingestion:** Drink 2 cups of milk / water for involuntary vomiting . In severe cases obtain medical attention.

## **Section 5. FIRE FIGHTING MEASURES**

**Flash point:** Not applicable

**Ignition point:** No data

**Extinguishing Media:** CO<sub>2</sub>, dry chemical extinguisher

**Fire extinguishing process methods:** Wearing a self-service breathing machine

**Combustion hazard:** Excessive heat can cause inclusions overflow

**Combustion products:** CO<sub>2</sub>, CO, lithium metal oxide, excitant gas and toxic gas.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

**Leakage processing:** When the housing of cells contained in this product is damaged, small amounts of electrolyte may leak, evacuate until the smoke clears. Remove any heat source away, cool the battery, dissipate any steam, adequate ventilation. Avoid skin or eye contact from any steam.

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**Waste disposal methods:** Battery should be discharged, and discarded via the relevant departments, all waste must follow international, national, and local regulations for disposal.

## **Section 7: HANDLING AND STORAGE**

Do not store if damaged, burnt or electrolyte is leaking. Store in an air tight container. Do not short circuit, force discharge or immerse in water. Do not puncture the battery. Do not immerse in any liquids.

Operation and storage: Mechanical or electrical damage is prohibited. Store in a cool, dry, ventilated environment without temperature change, or with high temperatures. Keep away from any heat source, avoid long term exposure to sunlight.

If batteries internals are exposed, then there is a high risk of fire and explosion. It is prohibited to short circuit the batteries or expose to proper exposure.

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

**Respirator:** If the battery leaks ventilation is required.

**Hand protection:** None required under normal use conditions.

**Personal protection:** None required under normal use conditions.

**Other protection:** None required under normal use conditions.

Use respirator, gloves, work overalls, chemical goggles when handling leaked product.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Lithium batteries standard voltage:** 18v

**Rated capacity:** 5200mAh

**Electricity:** 93.6Wh

**Appearance and shape:** Black plastic cement shell

**Chemicals:** Lithium-On battery pack.

## **Section 10: STABILITY AND REACTIVITY**

**Stability:** Good stability under normal use.

**Environments to avoid:** High Temperature, mechanical & electrical damage

**Decomposition:** N/A

If leaking avoid contact with strong oxidant acid, alkali, halogen.

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## **Section 11: TOXICOLOGICAL INFORMATION**

If battery damage occurs inhalation, skin or eye contact may cause irritation. Released fumes / vapour can damage skin, eyes and respiratory mucosa.

## **Section 12: ECOLOGICAL INFORMATION**

The correct use of batteries will not cause harm to the environment.

The disposal of waste must be kept away from water, rain and snow areas.

## **Section 13: DISPOSAL CONSIDERATIONS**

If the lithium battery is not completely discharged or partially discharged and lithium still exist in the battery, it will be treated as hazardous waste. It should be handled by the correct organisations and must not be abandoned. Certain laws and regulations may allow the battery to be recycled.

## **Section 14: TRANSPORT INFORMATION**

**Air transport:** IATA-DGR 62TH

**UN/ID Number:** 3480

**Class:** 9

This product is lithium ion/polymer battery, packaged individually. Watt-hour rating is 93.6Wh. Each battery is of a type proved to meet the requirements of each test in the **UN Manual Of Test & Criteria, Part III, subsection 38.3**.

Each package is capable of withstanding 1 1.2m drop test in any orientation without damage to the cells contained therein, without shifting of the contents so as to allow cell to cell contact and without release of contents. Each package is marked with a lithium battery mark.

**Maritime transport:** IMDG 2018

These products are not subject to other provisions of IMDG code 2018 edition according to special provision 188.

**NOTE:** The battery should be in the condition of half charge transport packaging boxes, it should also be able to withstand violent vibration, shock, and weather conditions in the process of transportation. Each package is capable of withstanding a 1.2m drop test in any orientation cell contact without release of contents. Each battery is type approve to the requirements of **UN Manual Of Test & Criteria, Part III, subsection 38.3**.

## **Section 15: REGULATORY INFORMATION**

China: The substance is classed as division 9 hazardous chemicals according to classification and code of dangerous goods (GB6944-2012, GB12268-2012)

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## Section 16: OTHER INFORMATION

The information was accurate at the time and is for reference for Health & Safety and environmental purposes. It should not be used as a form of warranty. Please provide proper training for any person who may use, manage this material and those safe –handling.

Abbreviation: N/A = Not Applicable / Not Available.

Edit Date: August 18 2021

The safety data sheet is based on GHS, TDG, IMDG, IATA-DGR and “dangerous chemical safety management regulations” and the national standards and other related dangerous chemicals management laws and regulations and standards. The laws, regulations and standards are regularly updated and changed.