SDS Number: Frontline™ 2500+ Lithium Battery Jump Starter
Revision Date: 4/15/2026
Report Number: 1815C50417312706

SAFETY DATA SHEET

This Safety Data Sheet (SDS) covers welding consumables and related products and complies with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Superfund Amendments and Reauthorization Act (SARA) of 1986. Refer to the OSHA standard for specific requirements. This SDS is available on our website at www.forneyind.com, through your sales representative, or by contacting customer service at 1-800-521-6038.

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION:

Manufacturer/Supplier:	Forney Industries, Inc.
Address:	2057 Vermont Drive Fort Collins, CO 80525
Website:	www.forneyind.com
Email:	CustomerService@forneyind.com
Phone Number:	+1 (800) 521-6038
USA Emergency Phone Number:	+1 (800) 535-5053
International Emergency Phone Number:	+1 (352) 323-3500
Trade Name:	Frontline™ 2500+ Lithium Battery Jump Starter
Ratings:	14.8V/5000mAh/74Wh
Forney ITEM#'s:	**955**

SECTION 2 – HAZARDS IDENTIFICATION:

Explosive risk	This article does not belong to the explosion dangerous goods
Flammable risk	This article does not belong to the flammable material
Oxidation risk	This article does not belong to the oxidation of dangerous goods
Toxic risk	This article does not belong to the toxic dangerous goods
Radioactive risk	This article does not belong to the radiation of dangerous goods
Mordant risk	This article does not belong to the corrosion of dangerous goods
other risk	Watt hour rate 74 Wh, which belong to the Lithium ion batteries (including lithium ion polymer batteries)

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS:

a) **Mixtures information**

Chemical Composition	Chemical Formula	CAS No.	Weight (%)
Lithium Nickle Cobalt Manganese Oxide	$Li(NiCoMn)O_2$	182442-95-1	16.011%
PVDF	$(CH_2\text{-}CF_2)n$	24937-79-9	0.792%
Graphite	C	7782-42-5	17.528%
（EC）	$C_3H_4O_3$	96-49-1	4.676%
（EMC）	$C_4H_8O_3$	623-53-0	3.473%
(DMC)	$C_3H_6O_3$	616-38-6	9.352%
（PC）	$C_4H_6O_3$	108-32-7	2.149%
（1,3-PS）	$C_3H_6O_3S$	1120-71-4	0.232%
（VC）	$C_3H_2O_3$	872-36-6	0.270%
(Lithium Hexafluorophosphate)	$LiPF_6$	21324-40-3	3.473%
CMC	$[C_6H_7O_2(OH)_2CH_2CONa]_n$	9004-32-4	0.220%
Polypropylene	$(C_2H_4)n$	9002-88-4	0.623%
Copper	Cu	7440-50-8	22.393%
Aluminium	Al	7429-90-5	16.011%
Nickel	Ni	7440-02-0	0.108%
SBR	$(C_8H_8C_4H_6)x$	9003-55-8	0.813%
Carbon Black	C	1333-86-4	1.876%

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SECTION 4 – FIRST AID MEASURES:

Eye
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin
Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.
Inhalation
Remove from exposure and move to fresh air immediately. Use oxygen if available.
Ingestion
Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician

SECTION 5 – FIRE-FIGHTING MEASURES:

Flash Point: N/A.
Auto-Ignition Temperature: N/A.
Extinguishing Media: Water, CO_2.
Special Fire-Fighting Procedures
Self-contained breathing apparatus.
Unusual Fire and Explosion Hazards
Cell may vent when subjected to excessive heat-exposing battery contents.
Hazardous Combustion Products
Carbon monoxide, carbon dioxide, lithium oxide fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES:

Steps to be Taken in case Material is Released or Spilled
If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.
Waste Disposal Method
It is recommended to discharge the battery to the end, to use up the metal lithium inside the battery, transfer it to the professional processing company for recycling.

SECTION 7 – HANDLING AND STORAGE:

The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.
Precautions to be taken in handling and storing
Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is

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subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

Other Precautions

The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Respiratory Protection

In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.

Ventilation

Not necessary under conditions of normal use.

Protective Gloves

Not necessary under conditions of normal use.

Other Protective Clothing or Equipment

Not necessary under conditions of normal use.

Personal Protection is recommended for venting battery

Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Quadrate shape
Odour: If leaking, smells of medical ether.
pH: Not applicable as supplied.
Flash Point: Not applicable unless individual components exposed.
Flammability: Not applicable unless individual components exposed.
Relative density: Not applicable unless individual components exposed
Solubility (water): Not applicable unless individual components exposed
Solubility (other): Not applicable unless individual components exposed

SECTION 10 – STABILITY AND REACTIVITY:

Stability: Product is stable under conditions described in Section 7.
Conditions to Avoid : Heat above 70°C or incinerate. Deform. Mutilate. Crush. Disassemble. Overcharge. Short circuit. Expose over a long period to humid conditions.
Materials to avoid: Oxidising agents, alkalis, water.
Hazardous Decomposition Products : Toxic Fumes, and may form peroxides.
聚合危害：不适用
Hazardous Polymerization : N/A.
If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

SECTION 11 – TOXICOLOGICAL INFORMATION:

Signs & symptoms: None, unless battery ruptures.
In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.
Inhalation: Lung irritant.
Skin contact: Skin irritant.

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Eye contact: Eye irritant
Ingestion: Poisoning if swallowed..
Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to server irritation, burning and dryness of the skin may occur, Target QJ/11.4393-2011.05 organs nerves, liver and kidneys.

SECTION 12 – ECOLOGICAL INFORMATION:

Mammalian effects: None known at present.
Eco-toxicity: None known at present.
Bioaccumulation potential: Slowly Bio-degradable.

SECTION 13 – DISPOSAL CONSIDERATIONS:

Do not incinerate, or subject cells to temperature in excess of 70°C, Such abuse can result in loss of seal leakage, and/or cell explosion. Dispose of in accordance with appropriate local regulations.

SECTION 14 – TRANSPORT INFORMATION:

Label for conveyance: Lithium Battery Mark， Class 9 Hazard Label， Cargo Aircraft Only Label
UN Number: UN3480 or UN3481
Packaging Group: N/A
EmS编号：F-A ,S-I
EmS No: F-A ,S-I
Marine pollutant: No
Proper Shipping name: 1）Lithium-ion Batterys；2）Lithium ion batteries packed with equipment；3）Lithium ion batteries contained in equipment.（including Lithium ion polmer batteries ）
Hazard Classification: The goods shall be complied with the requirements of Section II (or Section IB) of Packing Instructions 965~967 of 66th DGR Manual of IATA (2025 Edition) and Special Provision188 of IMDG CODE (Amdt.42-24), including the passing of the UN38.3 test.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises：No further information.

SECTION 15 – REGULATORY INFORMATION:

Law information
《Dangerous Goods Regulations》
《Recommendations on the Transport of Dangerous Goods Model Regulations》
《International Maritime Dangerous Goods》
《Technical Instructions for the Safe Transport of Dangerous Goods 》
《Classification and code of dangerous goods》
《Occupational Safety and Health Act》(OSHA)
《Toxic Substance Control Act》(TSCA)
《Consumer Product Safety Act》(CPSA)

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《Federal Environmental Pollution Control Act》(FEPCA)
《The Oil Pollution Act》(OPA)
《Superfund Amendments and Reauthorization Act TitleⅢ (302/311/312/313)》(SARA)
《Resource Conservation and Recovery Act》(RCRA)
《Safety Drinking Water Act》(CWA)
《California Proposition 65》

CALIFORNIA PROPOSITION 65 WARNING

WARNING: This product contains a lithium-ion battery. The manufacturing process of the battery or the components it contains may expose you to chemicals including:

- **Chemicals known to the State of California to cause cancer**: **Nickel**, Cobalt (present in Lithium Nickel Cobalt Manganese Oxide), Carbon Black, Hexavalent Chromium compounds (which may be present as impurities on some components), Lead and Lead compounds (if present).
- **Chemicals known to the State of California to cause birth defects or other reproductive harm**: **Nickel**, Hexavalent Chromium compounds (which may be present as impurities on some components), Lead and Lead compounds (if present).

For more information, go to https://www.p65warnings.ca.gov/

Summary of Relevant US State Regulations:

Alaska - Designated Toxic and Hazardous Substances: Manganese (present in Lithium Nickel Cobalt Manganese Oxide).

California - Hazardous Substances Listed: Carbon Black, Chromium, Cobalt (present in Lithium Nickel Cobalt Manganese Oxide), Copper, Manganese (present in Lithium Nickel Cobalt Manganese Oxide), Nickel.

California Proposition 65 - Carcinogens & Reproductive Toxins (CRT):

Listed Substances: Cobalt (present in Lithium Nickel Cobalt Manganese Oxide), Hexavalent Chromium compounds, Nickel, Lead.

CRT Listed Date (Carcinogen): Hexavalent Chromium compounds (February 27, 1987). Nickel (October 1, 1989). Cobalt (December 19, 2023).

CRT Listed Date (Developmental/Male or Female Reproductive Toxin): Hexavalent Chromium compounds (December 19, 2008), Lead (February 27, 1987).

Florida - Substance List: Manganese (present in Lithium Nickel Cobalt Manganese Oxide).

Illinois - Toxic Substance List: Carbon Black, Copper, Manganese (present in Lithium Nickel Cobalt Manganese Oxide).

Kansas - Section 302/313 List: Copper, Manganese (present in Lithium Nickel Cobalt Manganese Oxide).

《美国联邦法规》
《Code of Federal Regulations》(CFR)
根据所有联邦、州和地方法律。
In accordance with all Federal,State and local laws.

SECTION 16 – OTHER INFORMATION:

This file is only effective to the batteries provided by commissioner (Forney Industries).
The commissioner provides the composition information of batteries, and promises its integrity and accuracy. Users should read this file carefully, and use the batteries in correct method.
Forney Industries doesn't assume responsibility for any damage or loss because of misuse of batteries.