

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product Name: PEAKAIR / AIRPLUS PAPR Lithium-ion Battery
SDS Number: N/A
Product Code: AP-BAT-03
Revision Date: Nov 06, 2025 **Date Printed:** Nov 07, 2025
Version: 1.0 **Supersedes Date:** N.A.
Distributor: Canada - Walter Surface Technologies Inc.
Address: 5977 Trans Canada Highway West Pointe-Claire, QC, CA, H9R 1C1
Emergency Phone: 1-800-535-5053 . International call collect: 1-352-323-3500 24 hours/day, 7 D/W.
Information Phone Number: +1 (888) 592-5837
Fax: (514) 630-2825
Product/Recommended Uses:

SECTION 2) HAZARDS IDENTIFICATION

Classification

Flammables solids - Category 2
Carcinogenicity - Category 2
Reproductive Toxicity - Category 1B
Serious Eye Damage - Category 1
Skin Corrosion - Category 1A
Skin Sensitizer - Category 1
Specific Target Organ Toxicity - Repeated Exposure - Category 1
Acute aquatic toxicity - Category 2
Chronic aquatic toxicity - Category 2

Safety data sheet prepared in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Pictograms



Signal Word

Danger

Hazardous Statements - Health

H351 - Suspected of causing cancer.
H360 - May damage fertility or the unborn child
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H372 - Causes damage to organs through prolonged or repeated exposure.

Hazardous Statements - Physical

H228 - Flammable solid

Hazardous Statements - Environmental

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention

P273 - Avoid release to the environment.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves/eye protection/face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 - Ground or bond container and receiving equipment.

P241 - Use explosion-proof electrical, ventilating, and lighting equipment.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P270 - Do not eat, drink or smoke when using this product.

Precautionary Statements - Response

P308 + P313 - IF exposed or concerned: Get medical help.

P391 - Collect spillage.

P370 + P378 - In case of fire: Use carbon-di oxide, alcohol foam, water spray or dry chemical to extinguish.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P363 - Wash contaminated clothing before reuse.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P321 - Specific treatment (see First-Aid on this label).

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or a rash occurs: Get medical help.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

Precautionary Statements - Storage

P405 - Store locked up.

Precautionary Statements - Disposal

P501 - Dispose of contents or container in accordance with local, national, and international regulations.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0012190-79-3	LITHIUM COBALT OXIDE	15.00% - 40.00%
0007782-42-5	GRAPHITE	10.00% - 30.00%

CAS	Chemical Name	% By Weight
0021324-40-3	PHOSPHATE(1-), HEXAFLUORO-, LITHIUM	10.00% - 30.00%
0007440-50-8	COPPER	7.00% - 13.00%
0007429-90-5	ALUMINUM FOIL	5.00% - 10.00%
0007440-02-0	NICKEL	1.00% - 5.00%
0009002-86-2	PVC (CHLOROETHYLENE, POLYMER)	1.00% - 5.00%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor.

If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor.

Eye Contact

If eye irritation persists:

If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open.

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open.

Remove contact lenses, if present and easy to do.

Continue rinsing for a duration of 30 minutes or until medical aid is available.

Take care not to rinse contaminated water into the unaffected eye or onto the face.

Immediately call a POISON CENTER or doctor.

Avoid direct contact. Wear chemical protective gloves, if necessary.

Skin Contact

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts).

Rinse skin with lukewarm, gently flowing water/shower for a duration of 30 minutes or until medical aid is available.

Immediately call a POISON CENTER or doctor.

Wash contaminated clothing before re-use or discard.

Ingestion

Rinse mouth.

Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

Most important symptoms and effects, both acute and delayed

No data available.

Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire : Water spray, fog or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use straight stream of water.

Specific Hazards Arising from the Chemical

Runoff may pollute waterways Fire will produce irritating and corrosive gases.

Precautions for Firefighters

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Equipment

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure

Stay uphill and/or upstream. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Evacuate and isolate hazard area and keep unauthorized personnel away.

Protective Equipment

Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA). Wear liquid tight chemical protective clothing in combination with positive pressure self-contained breathing apparatus (SCBA).

Personal Precautions

Do not breathe vapor or mist. Do not get on skin, eyes or clothing.

Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and Materials for Containment and Cleaning up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Ventilate area after clean-up is complete.

SECTION 7) HANDLING AND STORAGE

General

Wash hands after use. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. All containers must be properly labelled. Do not get in eyes, on skin, or on clothing. Eyewash stations and showers should be available in areas where this material is used and stored. Do not breathe vapor or mist.

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Report ventilation failures immediately.

Storage Room Requirements

Store in a cool, dry, well ventilated area, away from sources of ignition and incompatibilities. Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Indoor storage should meet OSHA standards and appropriate fire codes. Empty containers retain residue and may be dangerous.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)
ALUMINUM FOIL	1			[15]; [5];				1 (R)
COPPER	1			[0.1]; [1 (a)];				[0.2]; [1];
GRAPHITE	[1]; [3];		15 (a) mppcf	[15]; [15 mppcf]; [5];				2 (R)
LITHIUM COBALT OXIDE								0.02
NICKEL	1			1				1.5 (I)
PHOSPHATE(1-), HEXAFLUORO-, LITHIUM								2.5
PVC (CHLOROETHYLENE, POLYMER)								1 (R)

Chemical Name	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	ACGIH Carcinogen	NIOSH Carcinogen
ALUMINUM FOIL				2			A4	
COPPER				0.1,1a				
GRAPHITE				2.5				
LITHIUM COBALT OXIDE							A3	
NICKEL				0.015a			A5	
PHOSPHATE(1-), HEXAFLUORO-, LITHIUM							A4	
PVC (CHLOROETHYLENE, POLYMER)							A4	

Chemical Name	ACGIH TLV Basis	ACGIH Notations	OSHA Skin designation	CAN_ONsmg	CAN_ONtmg	CAN_ONspmm	CAN_ONtppm
ALUMINUM FOIL	Pneumoconiosis; LRT irr; neurotoxicity	A4					
COPPER	Irritation; GI; metal fume fever						
GRAPHITE	Pneumoconiosis						
LITHIUM COBALT OXIDE	pulm func changes	DSEN; RSEN; A3; BEI					
NICKEL	Dermatitis; pneumoconiosis	A5			1 (I)		
PHOSPHATE(1-), HEXAFLUORO-, LITHIUM	Bone dam; fluorosis	A4; BEI					

Chemical Name	ACGIH TLV Basis	ACGIH Notations	OSHA Skin designation	CAN_ONsmg	CAN_ONtmg	CAN_ONsppm	CAN_ONtppm
PVC (CHLOROETHYLENE, POLYMER)	Pneumoconiosis; LRT irr; pulm func changes	A4					

(I) - Inhalable fraction, (R) - Respirable fraction, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, A5 - Not Suspected as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, dam - Damage, DSEN - Dermal sensitization, func - Function, GI - Gastrointestinal, irr - Irritation, LRT - Lower respiratory tract, pulm - Pulmonary, RSEN - Respiratory sensitization

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Density	N/A
Specific Gravity	N/A
% VOC	N/A

Appearance	Prismatic, Silver
pH	N/A
Odor Description	If leaking, smells of medical ether
Flammability	N/A
Flash Point	N/A
Low Boiling Point	N/A
High Boiling Point	N/A
Auto Ignition Temp	N/A
Freezing Point	N/A
Melting Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Evaporation Rate	N/A
Upper Explosion Limit	N/A
Lower Explosion Limit	N/A
Water Solubility	N/A
Coefficient Water/Oil	N/A
Viscosity	N/A
Kinematic Viscosity	N/A
Kinematic Viscosity Temperature	N/A

SECTION 10) STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical Stability

Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions/Polymerization

Will not occur.

Conditions To Avoid

Avoid heat, sparks, flame, high temperature and contact with incompatible materials.

Incompatible Materials

Strong bases, acids, and oxidizing agents.

Hazardous Decomposition Products

Oxides of carbon.

SECTION 11) TOXICOLOGICAL INFORMATION

Acute Toxicity

Based on available data, the classification criteria are not met.

Aspiration Hazard

Based on available data, the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer.

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive Toxicity

May damage fertility or the unborn child

Respiratory/Skin Sensitization

May cause an allergic skin reaction

Serious Eye Damage/Irritation

Causes serious eye damage

Skin Corrosion/Irritation

Causes severe skin burns and eye damage

Specific Target Organ Toxicity - Repeated Exposure

Causes damage to organs through prolonged or repeated exposure.

Specific Target Organ Toxicity - Single Exposure

Based on available data, the classification criteria are not met.

Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

Chronic Exposure

Based on available data, the classification criteria are not met.

Potential Health Effects - Miscellaneous

Based on available data, the classification criteria are not met.

0007440-50-8 COPPER

LD50 (intraperitoneal, mouse): 3.5 mg/kg (6);

SECTION 12) ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

SECTION 14) TRANSPORT INFORMATION

	IATA Information	IMDG Information	U.S. DOT Information	Canada TDG Information
UN number:	UN3264	UN3264	UN3264	UN3264
Proper shipping name:	Corrosive liquid, acidic, inorganic, n.o.s. (COPPER, NICKEL, Phosphate(1-), hexafluoro-, lithium)	Corrosive liquid, acidic, inorganic, n.o.s. (COPPER, NICKEL, Phosphate(1-), hexafluoro-, lithium)	Corrosive liquid, acidic, inorganic, n.o.s. (COPPER, NICKEL, Phosphate(1-), hexafluoro-, lithium)	Corrosive liquid, acidic, inorganic, n.o.s. (COPPER, NICKEL, Phosphate(1-), hexafluoro-, lithium)
Hazard class:	8	8	8	8
Packaging group:	I	I	I	I
Hazardous substance (RQ):			No Data Available	No Data Available
Marine Pollutant:		No Data Available	No Data Available	No Data Available
Note / Special Provision:	No Data Available	No Data Available	No Data Available	No Data Available
Toxic-Inhalation Hazard:			No Data Available	No Data Available

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0012190-79-3	LITHIUM COBALT OXIDE	15% - 40%	Canada_NPRI, DSL - Domestic Substance List, HAPS, IARCCarcinogen, NTP_Carcinogen - National Toxicology Program Carcinogens, TSCA - Toxic Substances Control Act (TSCA), NEI - National Emissions Inventory
0007782-42-5	GRAPHITE	10% - 30%	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0021324-40-3	PHOSPHATE(1-), HEXAFLUORO-, LITHIUM	10% - 30%	Canada_NPRI, NDSL - Non-Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA), TSCA_PMN - TSCA Pre-manufacture Notices (PMNs)
0007440-50-8	COPPER	7% - 13%	Canada_NPRI, DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA), Canada_ON_419
0007429-90-5	ALUMINUM FOIL	5% - 10%	DHS_COI - DHS_Chemical Of Interest, Canada_NPRI, DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0007440-02-0	NICKEL	1.00% - 5%	Canada_NPRI, DSL - Domestic Substance List, HAPS, IARCCarcinogen, NTP_Carcinogen - National Toxicology Program Carcinogens, TSCA - Toxic Substances Control Act (TSCA), NEI - National Emissions Inventory, Canada_ON_419

CAS	Chemical Name	% By Weight	Regulation List
0009002-86-2	PVC (CHLOROETHYLENE, POLYMER)	1.00% - 5%	DSL - Domestic Substance List, IARC Carcinogen, TSCA - Toxic Substances Control Act (TSCA)

SECTION 16) OTHER INFORMATION

Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL- Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

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