To: V7 Customers and Partners

Date: February 11th, 2022

PRODUCT & BATTERY MSDS IDENTITY DECLARATION

V7 declares under our sole responsibility that the below mentioned product model ("V7 Model No") produced for Ingram Micro under Ingram Micro's Private Label are the same products with same lithium batteries specifications as referenced in below mentioned test reports ("Test Report Ref").

Ingram Micro Brand	V7 Model No	Test Report Ref
V7	See attachment A	MSDS Report No: See attached

Sincerely,

Amit V. Khajanchi
Sr. Manager, Service & Operations
Worldwide Private Label – V7

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Product Attachment A

Laptop Batteries:

D-451BBFX-V7E	D-3VC9Y-V7E	AP-A1375-V7E	V7EL-57Y6454	V7EL-0A36307
D-4F5YV-V7E	D-MC34Y-V7E	AP-A1369-V7E	V7EP-VZSU29	V7ED-451BBID
AP-A1321-V7E	D-99NF2-V7E	D-7HRJW-V7E	V7EAS-A32M50	V7EL-0A36305
V7ED-W1193	D-HMPFH-V7E	D-92NCT-V7E	V7EAS-A32F52	V7EH-VI04
V7EH-FP06	H-OM03XL-V7E	L-L16C2PB2-V7E	V7EH-WD548AA	V7EL-0A36309
V7EL-0A36302	L-00HW003-V7E	D-4H34M-V7E	V7EP-VZSU30	V7EA-AS10D319C
V7EH-LA04	D-CFX97-V7E	L-L18M3PF7-V7E	V7ED-1M215	V7EH-CA09
V7EAS-A42G75	H-CS03XL-V7E	D-451BBJR-V7E	V7ED-WHXY39C	V7EL-42T4813
T-PA5184U-V7E	D-JHXPY-V7E	D-JT90P-V7E	V7ED-T112C6C	V7EH-VK04
T-PA5212U-V7E	D-GPM03-V7E	D-MG2YH-V7E	V7EGW-AS09C31	V7EH-710417
L-01AV425-V7E	AS-A32N1405-V7E	H-H6L25UT-V7E	V7EH-581191	V7EL-0A36292
D-YRDD6-V7E	D-G5M10-V7E	V7ET-A200	V7ED-KM742	V7ED-C0C5M
D-G0G2M-V7E	D-C27RW-V7E	V7EH-NC6200	V7ED-KM9659C	V7ED-XRJDF
H-933322-855-V7E	V7EP-VZSU71U	V7EH-NC8200	V7ED-OW3Y7C	V7EH-OA04
H-SS03XL-V7E	H-PK03XL-V7E	V7EL-R60H	V7EP-VZSU43	D-CB1C13-V7E
H-CI03XL-V7E	D-62MJV-V7E	V7EL-T40L	V7EH-QA349AA	H-KP03-V7E
L-4X50M08810-V7E	V7EA-AS10D31	V7EL-X60H	V7EH-AH547AA	P-CF-VZSU51W-V7E
H-RI04-V7E	D-RRCGW-V7E	V7EG-R40	V7ED-GK479	D-453BBBE-V7E
H-687945-001-V7E	H-L11119-855-V7E	V7EA-AS5520X3	V7EH-PR09	H-LA03-V7E
V7ED-T54FJ9C	V7EH-CA06	V7EA-AS5520X4	V7ES-BPS13	H-HY04-V7E
D-451BBBR-V7E	H-901307-541-V7E	V7EH-DV4	V7EH-WD547AA	D-451BBJB-V7E
H-854108-850-V7E	D-FTH6T-V7E	V7EH-DV7	V7ED-FRR0G	P-VZSU40-V7E
H-RO04-V7E	V7EH-QK646AA	V7ED-6000H	V7EAS-A32K53	L-L12S4Z01-V7E
V7EL-0C52863	H-HS03-V7E	V7ED-D620X3	V7ED-WU8419C	L-L14M3P23-V7E
H-808452-001-V7E	AR-AP16M5J-V7E	V7ED-D600	V7EH-H2L56AA	L-45N1185-V7E
D-F3YGT-V7E	H-854109-850-V7E	V7ED-D820	V7ED-RM791	
AP-A1382-V7E	V7EL-0C52862	V7ED-FG442	V7ED-N2DN5	
V7ED-T54FJ	L-L17M2PB3-V7E	V7EH-KU531AA	V7ED-KCN1P	
V7EL-45N1762	AP-A1322-V7E	V7ED-PT4349C	V7ET-PA5025U	
H-KI04-V7E	V7EH-QK641AA	V7EH-KU533AA	V7ED-HG542	
V7EH-AR08	V7EH-RA04	V7EL-42T4549	V7EL-42T4522	
H-HS04-V7E	D-N18GG-V7E	V7ED-GP975	V7EH-MO06	
L-00HW025-V7E	D-3CRH3-V7E	V7ED-PT434	V7ED-04NW9	
D-GD1JP-V7E	L-45N1070-V7E	V7ET-3817U	V7EAS-A32K56	
H-931719-850-V7E	H-812205-001-V7E	V7EH-161C5	V7EL-0A36303	
V7EH-CC06	D-XWDK1-V7E	V7EH-PH06	V7EH-WD548AA9C	
H-RE03XL-V7E	D-WV7G0-V7E	V7EH-OB1D	V7ED-9GP08	
D-7V69Y-V7E	H-851610-850-V7E	V7ED-PFF30	V7ED-J1KND	
D-TP1GT-V7E	D-G019Y-V7E	V7EG-PB9NC6	V7EH-QK647AA	
H-805096-005-V7E	H-PE03XL-V7E	V7EL-40Y7001	V7EL-45N1043	
H-919701-850-V7E	H-DB03-V7E	V7EL-43R9254	V7ET-5162U	
H-800514-001-V7E	H-NP03XL-V7E	V7EP-V7SU48U	V7EH-CC09	
H-E7U25AA-V7E	AP-A1280-V7E	V7EL-43R92549C	V7EH-MR03	
L-0C52864-V7E	AP-A1281-V7E	V7ED-4JK6R	V7ED-451BBIE	
H-CM03-V7E	AP-A1331-V7E	V7EAS-A311015B	V7EH-FP09	

Material Safety Data Sheet (MSDS)

Lithium-ion Battery Pack

MSDS Revision	A
Date	02-11-2022
Approve by	Quality Department
Type	Lithium Ion Notebook Battery Pack

Section 1 – Chemical and Company Identification

Product Identification

Product Name: Battery Pack Assy,
Manufacturer: Ingram Micro Inc, V7

Company Identification

Ingram Micro Inc.
3351 Michelson Drive, Suite 100
Irvine, CA 92612

Section 2 – Composition/ Information on Ingredients

Battery Pack contains 6 Lithium Polymer, 2.2Ah cells encased in polyurethane (plastic)

Hazardous Ingredients	%	CAS Number
Aluminum Foil	2-10	7429-90-5
Nickel compound	0-25	
Manganese compound	0-15	
Cobalt compound	4-50	
Styrene-Butadiene-Rubber	<1	
Polyvinylidend Fluoride (PVDF)	<5	24937-79-9
Copper Foil	2-10	7440-50-8
Carbon (proprietary)	10-30	7440-44-0
Electrolyte (proprietary)	10-20	
Stainless steel, Nickel and inert materials	Remainder	N/A

Section 3 – Hazards Identification

The batteries and polyurethane (plastic) potting are designed to withstand temperature and pressure encountered in routine use. Under normal use there will be no contact with the batteries or potting.

Cells may explode in a fire causing the release of hydrogen fluoride gas. Use extinguishing media suitable for materials burning fire.

Primary Routes of Entry

Skin contact	No effect under routine handling and use
Skin absorption	No effect under routine handling and use
Eye contact	No effect under routine handling and use
Inhalation	No effect under routine handling and use
Ingestion	No effect under routine handling and use

Symptoms of Exposure

Under routine handling and use, there will be no effect from exposure.

Skin contact	No effect under routine handling and use
Skin absorption	No effect under routine handling and use
Eye contact	No effect under routine handling and use
Inhalation	No effect under routine handling and use
Ingestion	Reported as carcinogen Not applicable

Section 4 – First Aid Measures

If exposure to internal materials within cell due to damaged outer casing, the following actions are recommended.

Skin contact	Wash area thoroughly with soap and water and seek medical attention.
Eye contact	Rinse eyes with water for 15 minutes and seek medical attention.
Inhalation	Leave area immediately and seek medical attention.
Ingestion	Drink milk/water and induce vomiting; seek medical attention.

Section 5 – Fire Fighting Measures

General hazard

Cell is not flammable but internal organic material will burn if the cell is incinerated. Combustion products include, but are not limited to: Hydrogen fluoride , carbon monoxide and carbon monoxide.

Extinguishing Media

Use extinguishing media suitable for the materials that are burning.

Special Firefighting Instructions

If possible, remove cell(s) from fire fighting area. If heated above 125° C, cell(s) may explode/vent.

Firefighting Equipment.

Use NIOSHQA/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

Section 6 – Accidental Release Measure

On Land

Place material into suitable containers and call local fire/police department.

In water

If possible, remove from water and call local fire/police department.

Section 7 – Handling and storage

Handling

No special protective clothing required for handling battery packs

Storage

Store in a cool, dry place

Section 8 – Exposure Controls / Personal Protection

Engineering Controls

Keep away from heat and open flame; store in a cool, dry place

Personal Protection

Respirator

Not required during normal operations, SCBA required in the event of a fire.

Eye/face protection

Not required beyond safety practices of employer.

Gloves

Not required for handling of battery packs.

Foot protection

Steel Toed shoes recommended for large container handling.

Section 9 – Physical and Chemical Properties

State	Solid
Odor	N/A
PH	N/A
Vapor pressure	N/A
Vapor Density	N/A
Boiling point	N/A
Solubility in water	Insoluble
Specific gravity	N/A
Density	N/A

Section 10 – Stability and Reactivity

Reactivity
None

Stability
Stable under routine use

Incompatibilities
None during normal operations

Hazardous Decomposition Products
None during normal operation conditions
If cells are opened, hydrogen fluoride and carbon monoxide may be released.

Conditions to Avoid
Avoid exposure to heat and open flame.
Do not puncture, crush or incinerate.

Section 11 – Toxicological Information

This product does not emit toxins during routine handling and use.

Sensitization	No
Teratogenicity	No
Reproductive Toxicity	No
Acute Toxicity	No

If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

Section 12 – Ecological Information

Some materials within the cell are bio-accumulative. Under normal conditions, these materials are contained and pose no risk to persons or the surrounding environment.

Section 13 – Disposal Considerations

Recommended methods for safe and environmentally preferred disposal:

Product
Recycle through a recycling company. Do not throw a used battery or battery pack into the environment.

Containment Package
The battery pack is not contaminated under normal use. If internal materials leak, dispose as industrial wastes subject to special control.
California regulated debris RCRA Waste Code: Non- regulated dispose of according to all federal, state, and local regulations.

Section 14 – Transport Information

Lithium Ion batteries are considered to be “Rechargeable batteries” and meet the requirements of transportation by the U.S Department of Transportation (DOT), International Civil Aviation Administration (ICAO) and IMO-IMDG code (Special Provision 188 and 230).
For the lithium ion battery pack, the Watt-hours is not more than 100Wh.
Even classified as lithium ion batteries (UN 3480), 2019 IATA Dangerous Good Regulation 60th Edition Packing Instruction 965 Section 1B is applied.
The battery pack meets the requirement of the test outlined in the United Nations (UN) Manual of tests and Criteria, Part III, Sub-Section 38.3

No	Items	Results	Remarks
1	Altitude simulation	Pass	Test 1 to 5 must be conducted in sequence on the same cell or battery
2	Thermal Test	Pass	
3	Vibration	Pass	
4	Shock	Pass	
5	External Short Circuit	Pass	
6	Impact	Pass	
7	Overcharge	Pass	
8	Forced Discharge	N/A	For Cell only

Section 15 – Regulatory Information

This regulatory information included here should not necessarily be considered all inclusive. None of the ingredients in these products are subjected to the reporting requirements of the CERCLA, the Clean Air Act and the Clean Water act (US). This product is not formulated with, nor do the manufacturing and formulation process utilize any Class I or II Ozone depleting substance.

Section 16 – Other Information

The information contained in the Material Safety Data Sheet is based on the present knowledge and current legislation.
The Material Safety Data Sheet provides guidance on health, safety, and environmental aspects for the product and should not be understood as any guarantee of technical performance or suitability for particular applications.