


VOLVO CAR SERVICE AND PARTS BUSINESS				
<h1>Service Manager Bulletin</h1>				
TITLE: Shipping and Handling of Volvo Lithium-ion Hybrid Battery Packs to LG Chem LLC				
GROUP: 31	NO: 001	ISSUING DEPARTMENT: Warranty	CAR MARKET: United States	
REVISIONS: Outdated information removed			ISSUE DATE: 2016-05-03	STATUS DATE: 2020-06-29
Service Personnel: Read and initial	SERVICE MANAGER	SERVICE WRITER	WARRANTY ADMINISTRATOR	Page 1 of 15

“Right first time in Time”

Attention Volvo Parts Managers and Service Managers

There may come a time where a Customer Vehicle will require Technical Service and you will be instructed to replace and ship a defective lithium hybrid battery directly to our Supplier for Technical Evaluation.

Note: All Volvo Lithium-ion Hybrid Batteries will be part of our Volvo Technical Helpdesk Prior Approval Process.

The failed Hybrid battery must be shipped directly to the hybrid battery supplier LG Chem Power Inc. (LGCPI) at the address indicated below and on the shipping labels attached.

VOLVO LITHIUM-ION HYBRID BATTERY PACK SHIPPING AND HANDLING GUIDELINES:
Remove the replacement battery from the shipping container and follow instructions as outline in VIDA for vehicle installation.

HANDLING:

Ensure the replacement crate is kept in its original condition. The replacement battery pack shall be removed from its original packaging and installed in the vehicle as soon as possible in order to maintain protection against mechanical impact or tampering.

Service Manager Bulletin 31-001



Once the replacement battery is removed, store this container in a safe and secure place to be used for the transportation of the defective hybrid battery.

- Do not remove or cover up any of the hazmat shipping labels on the outside of the replacement container.
- Do not damage the replacement crate.
- Do not stack anything on top of the replacement crate.
- The battery pack shall always be kept in an upright position.
- If you damage the crate you will be charged for a replace crate of \$250 plus shipping and hazmat labeling cost.

Carefully insert the defective hybrid battery in the replacement crate as soon as possible and move this crate to a safe and secure staging location.

It is mandatory the defective hybrid battery be shipped to the supplier LG Chem within 2 days of receiving the replacement battery from LG Chem. The defective battery must be received by LG Chem 7 days of receipt of the replacement battery.

SHIPPING:

You will receive an LG RMA Number from Volvo Technical Helpdesk via of the open VR Case. Please complete the attached FedEx VICS Bill of lading. Retailers only need to fill out their return address and the RMA number.

All other information is pre-filled. Do not alter any information on this Bill of lading.

Located at the end of this bulletin are 4 LG Chem return shipping labels pre-address to LG Chem Power Inc.

- Cut out one of the labels.
- Fill out this label completely. Ensure the RMA Number is on the label.
- Secure the label to the outside of the replacement container.
- Contact the FedEx Freight at the number below and request a pick-up:
FedEx Freight Customer Service 1.866.393.4585

Ship to:

LG Chem Power Inc. (LGCPI)
1064 Chicago Rd.
Troy, MI. 48083
Attention: Michael Staszek
Quality Customer Service Supervisor

Once the FedEx Driver arrives, it is important to give the driver the completed FedEx Bill of Lading form and a copy of the attached Safety Data Sheets. Print the Safety Data Sheet from Service Manager Bulletin 31-001A.

You should also attach a copy of the Safety Data Sheet to the outside of the replacement shipping crate using the Volvo Poly Bags 7777563.



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Warranty and Technical Documents

These Documents must be included inside the crate with the defective battery.

- Technical Helpdesk Vehicle Report - (mandatory) see sample below.
- Shipping Label affix to the outside of the replacement crate. (mandatory)
- Material Data Safety Sheets affix to the outside of the replacement crate. (mandatory)
- Copy of the original Repair order-see sample below.

PLEASE DO NOT COVER OR REMOVE ANY OF THE HAZMAT LABELS





VICS Bill of Lading

SHIP FROM				Bill of Lading Number: _____ CARRIER: FedEx Freight TRAILER: _____ SCAC: _____ Pro Number: _____					
Name: _____ Address: _____ Address: _____ City/State/Zip: _____ SID#: LG RMA# _____ SID# N/A									
SHIP TO				Freight Charge Terms: Prepaid _____ Collect _____ 3rd Party <input checked="" type="checkbox"/> _____ Freight charges are to be prepaid unless marked collect.					
Name: LG CHEM POWER INC (LGCPPI) Address: 1064 CHICAGO ROAD Address: ATTENTION: MIKE STASZEK Quality Customer Service Supervisor City/State/Zip: TROY MICHIGAN, 48083 CID#: _____									
THIRD PARTY FREIGHT CHARGES BILL TO:				<input type="checkbox"/> Master Bill of Lading: with attached underlying Bills of Lading					
Name: Volvo Cars USA c/o Williams & Associates Address: 405 E. 78thSt. City/State/Zip: Bloomington, MN 55420 FedEx ACCT# 466499900									
SPECIAL INSTRUCTIONS: EMERGENCY PHONE NUMBER CONTACT: CHEMTREC 800-424-9300									
CUSTOMER ORDER INFORMATION									
CUSTOMER ORDER NUMBER		# PKGS	WEIGHT	circle one PALLET/SLIP		ADDITIONAL SHIPPER INFO			
				Y	N				
				Y	N				
				Y	N				
				Y	N				
				Y	N				
GRAND TOTAL									
CARRIER INFORMATION									
HANDLING UNIT		PACKAGE		WEIGHT	(✓) H.M.	COMMODITY DESCRIPTION <small>Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation with ordinary care.(See NMFC, Sec. 2e, Item 360)</small>	NMFC #	CLASS	
QTY	TYPE	QTY	TYPE						
1		1	BOX	287.0 lbs	X	UN 3480, Lithium - ion Batteries.9.11	060680-01	70	
Hazardous Material Package Type: BOX									
DANGEROUS GOODS									
BOX DIMS: 68 X 29X 34 in									
Emergency Guide, 138									
CLASS 9									
1		1		287.0 lbs		GRAND TOTAL			
<small>NOTE: (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property as follows: The agreed or declared value of the property is specifically stated by the shipper to be not exceeding _____ per _____.</small>						COD AMOUNT: \$ _____ Collect: <input type="checkbox"/> Prepaid: <input type="checkbox"/> <small>Customer check O.K.: <input type="checkbox"/> Cashier's check only: <input type="checkbox"/></small> <small>"COD" must appear with consignee's name above.</small>			
<small>NOTE: (2) Limitation for loss or damage on this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B). NOTE: (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation with ordinary car. See Sec. 2(e) of NMFC item 360.</small>						<small>The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges (Section 7).</small> _____ <small>Shipper Signature</small>			
SHIPPER SIGNATURE / DATE <small>This is to certify that the above named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.</small>				Trailer Loaded: <input type="checkbox"/> By Shipper <input type="checkbox"/> By Driver <input type="checkbox"/> By OSL		Freight Counted: <input type="checkbox"/> By Shipper <input type="checkbox"/> By Driver/Pallets said to contain <input type="checkbox"/> By Driver/Pieces		CARRIER SIGNATURE / PICKUP DATE <small>Carrier acknowledges receipt of packages and required placards. Carrier certifies, emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle.</small>	

Original not negotiable. See last page for further terms and conditions.

VICS COMPATIBLE BILL OF LADING

Terms & Conditions

Sec. 1. (a) The carrier or the party in possession of any of the property described in this bill of lading shall be liable as at common law for any loss thereof or damage thereto, except as hereinafter provided.

(b) No carrier shall be liable for any loss or damage to a shipment or for any delay caused by an Act of God, the public enemy, the authority of law, or the act or default of shipper. Except in the case of negligence of the carrier or party in possession, the carrier or party in possession shall not be liable for loss, damage or delay which results: when the property is stopped and held in transit upon request of the shipper, owner or party entitled to make such requests; or from faulty or impassible highway, or by lack of capacity of a highway bridge or ferry; or from a defect or vice in the property; or from riots or strikes. The burden to prove freedom from negligence is on the carrier or the party in possession.

Sec. 2. Unless arranged or agreed upon, in writing, prior to shipment, carrier is not bound to transport a shipment by a particular schedule or in time for a particular market, but is responsible to transport with reasonable dispatch. In case of physical necessity, carrier may forward a shipment via another carrier.

Sec. 3. (a) As a condition precedent to recovery, claims must be filed in writing with: any participating carrier having sufficient information to identify the shipment.

(b) Claims for loss or damage must be filed within nine months after the delivery of the property (or, in the case of export traffic, within nine months after delivery at the port of export), except that claims for failure to make delivery must be filed within nine months after a reasonable time for delivery has elapsed.

(c) Suits for loss, damage, injury or delay shall be instituted against any carrier no later than two years and one day from the day when written notice is given by the carrier to the claimant that the carrier has disallowed the claim or any part or parts of the claim specified in the notice. Where claims are not filed or suits are not instituted thereon in accordance with the foregoing provisions, no carrier shall be liable, and such claims will not be paid.

(d) Any carrier or party liable for loss of or damage to any of said property shall have the full benefit of any insurance that may have been effected, upon or on account of said property, so far as this shall not avoid the policies or contracts of insurance, PROVIDED, that the carrier receiving the benefit of such insurance will reimburse the claimant for the premium paid on the insurance policy or contract.

Sec. 4. (a) If the consignee refuses the shipment tendered for delivery by carrier or if carrier is unable to deliver the shipment, because of fault or mistake of the consignor or consignee, the carrier's liability shall then become that of a warehouseman. Carrier shall promptly attempt to provide notice, by telephonic or electronic communication as provided on the face of the bill of lading, if so indicated, to the shipper or the party, if any, designated to receive notice on this bill of lading. Storage charges, based on carrier's tariff, shall start no sooner than the next business day following the attempted notification. Storage may be, at the carrier's option, in any location that provides reasonable protection against loss or damage. The carrier may place the shipment in public storage at the owner's expense and without liability to the carrier.

(b) If the carrier does not receive disposition instructions within 48 hours of the time of carrier's attempted first notification, carrier will attempt to issue a second and final confirmed notification. Such notice shall advise that if carrier does not receive disposition instructions within 10 days of that notification, carrier may offer the shipment for sale at a public auction and the carrier has the right to offer the shipment for sale. The amount of sale will be applied to the carrier's invoice for transportation, storage and other lawful charges. The owner will be responsible for the balance of charges not covered by the sale of the goods. If there is a balance remaining after all charges and expenses are paid, such balance will be paid to the owner of the property sold hereunder, upon claim and proof of ownership.

(c) Where carrier has attempted to follow the procedure set forth in subsections 4(a) and (b) above and the procedure provided in this section is not possible, nothing in this section shall be construed to abridge the right of the carrier at its option to sell the property under such circumstances and in such manner as may be authorized by law. When perishable goods cannot be delivered and disposition is not given within a reasonable time, the carrier may dispose of property to the best advantage.

(d) Where a carrier is directed by consignee or consignor to unload or deliver property at a particular location where consignor, consignee, or the agent of either, is not regularly located, the risk after unloading or delivery shall not be that of the carrier.

Sec. 5. (a) In all cases not prohibited by law, where a lower value than the actual value of the said property has been stated in writing by the shipper or has been agreed upon in writing as the released value of the property as determined by the classification or tariffs upon which the rate is based, such lower value plus freight charges if paid shall be the maximum recoverable amount for loss or damage, whether or not such loss or damage occurs from negligence.

(b) No carrier hereunder will carry or be liable in any way for any documents, coin money, or for any articles of extraordinary value not specifically rated in the published classification or tariffs unless a special agreement to do so and a stipulated value of the articles are endorsed on this bill of lading.

Sec. 6. Every party, whether principal or agent, who ships explosives or dangerous goods, without previous full written disclosure to the carrier of their nature, shall be liable for and indemnify the carrier against all loss or damage caused by such goods. Such goods may be warehoused at owner's risk and expense or destroyed without compensation.

Sec. 7. (a) The consignor or consignee shall be liable for the freight and other lawful charges accruing on the shipment, as billed or corrected, except that collect shipments may move without recourse to the consignor when the consignor so stipulates by signature or endorsement in the space provided on the face of the bill of lading. Nevertheless, the consignor shall remain liable for transportation charges where there has been an erroneous determination of the freight charges assessed, based upon incomplete or incorrect information provided by the consignor.

(b) Notwithstanding the provisions of subsection (a) above, the consignee's liability for payment of additional charges that may be found to be due after delivery shall be as specified by 49 U.S.C. §13706, except that the consignee need not provide the specified written notice to the delivering carrier if the consignee is a for-hire carrier.

(c) Nothing in this bill of lading shall limit the right of the carrier to require the prepayment or guarantee of the charges at the time of shipment or prior to delivery. If the description of articles or other information on this bill of lading is found to be incorrect or incomplete, the freight charges must be paid based upon the articles actually shipped.

Sec. 8. If this bill of lading is issued on the order of the shipper, or his agent, in exchange or in substitution for another bill of lading, the shipper's signature on the prior bill of lading or in connection with the prior bill of lading as to the statement of value or otherwise, or as to the election of common law or bill of lading liability shall be considered a part of this bill of lading as fully as if the same were written on or made in connection with this bill of lading.

Sec. 9. If all or any part of said property is carried by water over any part of said route, such water carriage shall be performed subject to the terms and provisions and limitations of liability specified by the "Carriage of Goods By Sea Act" and any other pertinent laws applicable to water carriers.



View Report

[Back](#) [Failing Part Detail](#) [Open Report](#) [Status history](#) [User History](#) [Ref journal](#) [E-mail](#) [Print](#) [Set reminder](#) [Unread Report](#)

Ref	US - 460408	Status	Updated and sent to VCC	Status Date	01/19/2016
Issuer	LWERBERG	Partner	3 US 7510 Volvo Car USA	Issue Date	01/19/2016
Resp. Partner	4 SE PVT PVT	View	Central	Dealer Partner	6 US

Title	HV Battery Charging Failure XC90 T8	Urgent	N
Concern Area	Vehicle Report/THD	Sub Concern Area	Support Not Needed

Tag
Do not autoclose

SAMPLE VEHICLE REPORT

Attachments

File Name	File Size	Date	Central / Local	Hide
vidaData.xml	0.0033 MB	01/15/2016	L	<input type="checkbox"/>
Diagnostics.zip	0.2901 MB	01/15/2016	L	<input type="checkbox"/>

Function Group*

3113(battery, high voltage)

CSC* Customer Symptom Code

YL

Vehicle List

Type	Chassis	MY	VIN	LicPlate	Variant	Mileage	Plant	MC	Structure	Week	Issue Date	Primary Vehicle*	Hide	INFO	Related reports
256	0054916	2016	YV4BC0PL9G1054916		256BC530D1	41	21	31	201549		01/15/2016	Y	--	Vehicle Info	Reports

Reference

T21E03

TAG Follow up

1234569

CUSTOMER #: 1234569

WARRANTY

SAMPLE REPAIR ORDER

VOLVO USA RETAILER
ONE VOLVO DRIVE
SERVICE PH: 201-768-7300 -201-768-4556
www.volvo.com

PAGE 2

HOME: CONT:N/A
BUS: CELL:

SERVICE ADVISOR: 56 John Wayne

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN / OUT	TAG
ONYX_BLACK	16	VOLVO XC90	YV4BC0PL9G112345676		5/104	

TRIP DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
IS DD			16:30 15JAN16		0.00	CASH	26JAN16

R.O. OPENED READY OPTIONS: STK:E054916 ENG:2.0_Liter TRN:AUTO

07:26 15JAN16 13:40 26JAN16

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
------	--------	------	------	-------	------	-----	-------

FOUND MESSAGE BECAME PRESENT FOR CHARGING SYSTEM FAILURE, ATTEMPTED TO CHARGE IN "SAVE" MODE AND MESSAGE WAS DISPLAYED FOR HYBRID SYSTEM FAILURE. FAULT TRACED PER CSC "YL". CHECKED DTCs AND FOUND BECM-P0DBF00 STORED. FAULT TRACED AND FOUND LIKELY CAUSE IS INTERNAL FAULT IN HV BATTERY CELL "E". CONTACTED THD PER CASE RE #1234567. ASSISTED THD WITH REMOTE DIAGNOSTICS, ATTEMPTED BECM RELOAD, BATTERY RESETS AND OTHER DIAGNOSTICS TO RESTORE CELL BALANCING. ALL ATTEMPTS FAILED TO RESOLVE CONCERN. PER THD, REPLACED HV BATTERY AND PERFORMED BECM RELOAD. CLEARED DTCs AND TESTED CHARGING. CHARGING NOW FUNCTIONS BUT LEDs AT CHARGING OUTLET DO NOT LIGHT OR GIVE ANY INDICATION. FAULT TRACED PER CSC "YW". FAULT TRACED LED FAULT. DISCONNECTED MANUAL SERVICE DISCONNECT AND REMOVED LF FENDER LINING TO EXPOSE CHARGING OUTLET. INSPECTED OUTLET AND FOUND CONNECTOR HAS BEEN PULLED OUT OF LED PORTION OF CHARGING OUTLET DUE TO ZIP TIE CAUSING TOO MUCH TENSION ON WIRING. REMOVED ZIP TIE AND SECURED CONNECTOR. CHECKED WIRING TO BE SURE WIRING DOES NOT HAVE EXCESSIVE MOVEMENT-OK. RESTORED HV MSD AND TESTED LEDs AND FOUND ALL CHARGING INDICATIONS ARE FUNCTIONING PROPERLY. TEST DROVE AND FOUND ALL FUNCTIONS ARE NOW OPERATIONAL.

YOUR COMPLETE SATISFACTION IS OUR GOAL. IF FOR ANY REASON YOUR VISIT WAS NOT OUTSTANDING

WE APPRECIATE YOUR BUSINESS.

TECH: 00000 ACTUAL HRS.: 00.00 SOLD HRS.: 00.0

SALE-LBR: 0000.00 PTS: 0000.00 MSC: 0.00 LUB: 0.00 SUB: 0.00 TOTAL 00000
 COST-LBR: 000.00 PTS: 0000.00 MSC: 0.00 LUB: 0.00 SUB: 0.00 TOTAL 00000

DATE	START	FINISH	DURATION	TYPE	TECH	LINE(S)	CHG
01-15-16	00:00	00:00	0.00	W	00000	A	
	00:00	00:00	0.00	W	00000	C	
	00:00	00:00	0.00	W	00000	B	
	00:00	00:00	0.00	W	00000	D	

[] CASH [] CHECK CK NO. []
 [] VISA [] MASTER CARD [] DISCOVER
 [] AMER XPRESS [] OTHER [] CHARGE

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
ADJUSTMENT	
SUBLET AMOUNT	
SUPPLIES/WASTE DISP.	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

Thank You for Your Business!

CUSTOMER SIGNATURE

Please use this shipping label for LG Chem Power Inc. (LGCPI)
You will use FedEx Freight Carriers for transportation.
All Lines on this label must be filled out completely

Please Note: The phone number for FedEx Freight
Customer Service 1.866.393.4585
FedEx LTL Volume Services 1.888.465.5646

Please make a note of where this label and phone
number can be found for future reference.

LG CHEM SHIPPING LABELS

From: _____

LG Chem Power Inc. (LGCPI)
1064 Chicago Rd.
Troy, MI. 48083
Attention: Michael Staszek
Quality Customer Service Supervisor



LG RMA Number _____
TIE REPORT NUMBER _____
FedEx Tracking Number _____

From: _____

LG Chem Power Inc. (LGCPI)
1064 Chicago Rd.
Troy, MI. 48083
Attention: Michael Staszek
Quality Customer Service Supervisor



LG RMA Number _____
TIE REPORT NUMBER _____
FedEx Tracking Number _____



From: _____

LG Chem Power Inc. (LGCPI)
1064 Chicago Rd.
Troy, MI. 48083
Attention: Michael Staszek
Quality Customer Service Supervisor



LG RMA Number _____
TIE REPORT NUMBER _____
FedEx Tracking Number _____

From: _____

LG Chem Power Inc. (LGCPI)
1064 Chicago Rd.
Troy, MI. 48083
Attention: Michael Staszek
Quality Customer Service Supervisor



LG RMA Number _____
TIE REPORT NUMBER _____
FedEx Tracking Number _____



LG Return RMA Number



Attach to outside of shipping container

OUTGOING SHIPMENT CORRECTLY PACKAGED



Sample of a completed bill of lading with bar code from the FedEx driver



VICS Bill of Lading

SHIP FROM

Name: _____
Address: _____
Address: _____
City/State/Zip: _____
SID#, LG RMA# _____ SID# _____

SHIP TO

Name: LG CHEM POWER INC (LGCP)
Address: 1064 CHICAGO ROAD
Address: ATTENTION: MIKE STASZEK Quality Customer Service Supervisor
City/State/Zip: TROY MICHIGAN, 48083
CID#: _____

THIRD PARTY FREIGHT CHARGES BILL TO:

Name: Volvo Cars USA c/o Williams & Associates
Address: 405 E. 78thSt.
City/State/Zip: Bloomington, MN 55420 FedEx ACCT# 466499900

SPECIAL INSTRUCTIONS: EMERGENCY CONTACT
CHEM TECH 1.800.424.9300

Bill of Lading Number: _____

CARRIER: FedEx Freight TRAILER: _____

SCAC: _____ Pro Number _____

365420943-6



Freight Charge Terms:

Prepaid _____ Collect _____ 3rd Party **X**

Freight charges are to be prepaid unless marked collect.

Master Bill of Lading: with attached underlying Bills of Lading

CUSTOMER ORDER INFORMATION

SAMPLE VOLVO WEEKLY SERVICE TRANSACTION STATEMENT

LBAASPFRR

Volvo Car USA LLC
 Service Transaction Statement For Period: 04/01/16 to 07/08/16
 Parts Disposition Section

Part stmt ref: 60109

VOLVO REPAIR SHOP
 ONE VOLVO DRIVE
 ROCKLEIGH

3900
 NJ 07647

PART DISPOSITIONS (HOLD/SCRAP) MAY BY OVERRIDDEN
 BY INTERIM POLICIES FOR PART RETURNS. (EG: PRINTED
 PARTS RETURN COPY, TECHNICAL REPORTING, BULLETINS)

Repair Order#	Volvo Ref#	Repair Date	Disposition	Part Number	Description	Qty	Ship to
993847A	470390621/04/16		*RETURN*	30643315-0	AIR OUTLET	1.0	REG
993847B	470390631/04/16		SCRAP OR CORE	30775252-0	USB CONNECTION	1.0	
993850A	470390641/04/16		SCRAP OR CORE	31277342-0	BRAKE DISC	2.0	
993850B	470390651/04/16		SCRAP OR CORE	31277357-0	BRAKE DISC	2.0	
993853A	470350301/04/16		SCRAP OR CORE	30788936-0	ECM GASOLINE UPGRA	1.0	
993854A	47035031	1/04/16	SCRAP OR CORE	30750013-0	OIL FILTER INSERT	1.0	
			SCRAP OR CORE	00977751-0	GASKET	1.0	
			SCRAP OR CORE	08889951-0	Synthetic Castrol Oil	8.0	
			SCRAP OR CORE	30630752-0	POLLEN FILTER	1.0	
			SCRAP OR CORE	08888889-0	FSM EXPENDABLES \$2.00	1.0	
			SCRAP OR CORE	01189943-0	WW SOLVENT	1.0	
993874C	47042481	4/04/16	*RETURN*	31473177-0	HYBRID BATTERY	1.0	LGC-Return to LG Chem Power Inc.
			SCRAP OR CORE	31268489-0	ICM/IHU RELOAD	1.0	
993875E	47039067	1/04/16	SCRAP OR CORE	31483274-0	COURTESY UPGRADE S	1.0	
			SCRAP OR CORE	31483275-0	COURTESY UPGRADE S	1.0	
993888A	47045776	1/04/16	SCRAP OR CORE	08692305-0	OIL FILTER INSERT	1.0	
			SCRAP OR CORE	00977751-0	GASKET	1.0	
			SCRAP OR CORE	08889951-0	Synthetic Castrol Oil	6.0	
			SCRAP OR CORE	31449209-0	PARTICULATE FILTER	1.0	
			SCRAP OR CORE	08888889-0	FSM EXPENDABLES \$2.00	1.0	
			SCRAP OR CORE	01189943-0	WW SOLVENT	1.0	
993888B	470457771/04/16		SCRAP OR CORE	30772221-0	BATTERY	1.0	
993889A	470424821/04/16		SCRAP OR CORE	30788981-0	DEM UPGRADE	1.0	
993889B	47042483	1/04/16	*RETURN*	36001980-0	CONTROL UNIT, EXCH	1.0	TMA-Part must be returned within 30 days
			SCRAP OR CORE	31268489-0	ICM/IHU RELOAD	1.0	
993895A	470390681/04/16		SCRAP OR CORE	30772221-0	BATTERY	1.0	
993895B	47039069	1/04/16	SCRAP OR CORE	31282067-0	RDAR UPGRADE	1.0	
			SCRAP OR CORE	31270560-0	CEM UPGRADE	1.0	
993909A	47035033	1/04/16	SCRAP OR CORE	30750013-0	OIL FILTER INSERT	1.0	
			SCRAP OR CORE	00977751-0	GASKET	1.0	
			SCRAP OR CORE	08889951-0	Synthetic Castrol Oil	8.0	
			SCRAP OR CORE	08888889-0	FSM EXPENDABLES \$2.00	1.0	
			SCRAP OR CORE	01189943-0	WW SOLVENT	1.0	
993909C	47035034	1/04/16	SCRAP OR CORE	31214625-0	EMBLEM	1.0	
			SCRAP OR CORE	01161436-0	CLEANER H	.1	
			SCRAP OR CORE	31385914-0	PRIMER	.1	
993910A	47039070	1/04/16	SCRAP OR CORE	30750013-0	OIL FILTER INSERT	1.0	
			SCRAP OR CORE	00977751-0	GASKET	1.0	
			SCRAP OR CORE	08889951-0	Synthetic Castrol Oil	8.0	
			SCRAP OR CORE	30630752-0	POLLEN FILTER	1.0	
			SCRAP OR CORE	30680293-0	AIR FILTER INSERT	1.0	
			SCRAP OR CORE	31400205-0	BRAKE FLUID	1.0	
			SCRAP OR CORE	08888889-0	FSM EXPENDABLES \$2.00	1.0	
			SCRAP OR CORE	01189943-0	WW SOLVENT	1.0	
993910C	470390711/04/16		SCRAP OR CORE	31391513-0	DELIVERY VALVE	1.0	
993910D	47039072	1/04/16	*RETURN*	36001017-0	RADIO, EXCH	1.0	TMA-Part must be returned within 30 days
			SCRAP OR CORE	30775887-0	IAM RELOAD	1.0	
993928A	47042484	1/04/16	*RETURN*	36000041-0	STARTER MOTOR, EXC	1.0	TMA-Part must be returned within 30 days



Service Manager Bulletin

TITLE:

**LITHIUM-ION POLYMER BATTERY Safety Data Sheet for
Shipping and Handling**

GROUP: 31	NO: 001A	ISSUING DEPARTMENT:		CAR MARKET: United States	
REFERENCE BULLETINS:				ISSUE DATE: 2016-05-03	STATUS DATE: 2016-05-03
Service Personnel: Read and initial		SERVICE MANAGER	SERVICE WRITER	WARRANTY ADMINISTRATOR	Page 1 of 6

“Right first time in Time”

This SDS is required for the shipping of the Lithium-ion battery. In this process, a copy of the SDS document must be on the outside of the shipment crate and a copy of it must be given to the FedEx driver.

Print pages 2 – 6 of this Service Manager Bulletin (SDS Document)



Safety Data Sheet

31473177

Volvo Cars of North America, LLC
1 Volvo Drive
P.O. Box 914
Rockleigh, NJ 07647

Emergency
Telephone No.: **1-800-467-8583 (US)**
1-613-996-6666 (CAN)

Revision Date: 2014-01-14
Printed: 2015-12-16
Supersedes:

NOTE: Use the 24-Hour Emergency Telephone Numbers **only in the event of a chemical emergency involving a spill, leak, fire, exposure, or accident involving chemicals.** All non-emergency questions should be directed to Volvo Cars of North America, LLC at (201) 768-7300 (U.S.) or (416) 498-3700 (Canada) for assistance.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/ UNDERTAKING

PRODUCT NAME: LGCHEM P2.7 LITHIUM-ION POLYMER BATTERY PART NO: 31473177

MANUFACTURER: LG Chemical Limited
Twin Tower
Youido-Dong, Youngdeungpo-Ku
Seoul, Korea

EMERGENCY TELEPHONE
NUMBER: +82-2-3773-6730

2. HAZARDS IDENTIFICATION

Primary routes of entry

Skin contact: No
Skin absorption: No
Eye contact No
Inhalation: No
Ingestion: No

Symptoms of 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.
Reported as carcinogen: Not applicable.

Emergency overview: May explode in a fire, which could release hydrogen fluoride gas. Use extinguishing media suitable for materials burning in fire.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	CAS Number
Aluminum Foil	2-10	7429-90-5
Metal Oxide (proprietary)	20-50	
- Manganese	5-15	
- Nickel	3-6	
- Cobalt	3-6	
Polyvinylidene Fluoride (PVDF)	<5	24937-79-9
Copper Foil	5-20	7440-50-8
Carbon (proprietary)	10-20	7440-44-0
Electrolyte (proprietary)	10-20	
Aluminum, Copper plate and inert materials	Remainder	N/A

Lithium-equivalent Content: 7.72g (95.83 Watt)

4. FIRST-AID MEASURES

Inhalation:	Not a health hazard.
Eye contact:	Not a health hazard.
Skin contact:	Not a health hazard.
Ingestion:	If swallowed, obtain medical attention immediately.

IF EXPOSURE TO INTERNAL MATERIALS WITHIN CELL DUE TO DAMAGED OUTER CASING, THE FOLLOWING ACTIONS ARE RECOMMENDED:

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

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 dioxide.
Extinguishing media:	Use extinguishing media suitable for the materials that are burning.
Special fire-fighting instructions:	If possible, remove cell(s) from fire-fighting area. If heated above 150°C, cell(s) may explode/vent.
Fire-fighting equipment:	Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

6. ACCIDENTAL RELEASE MEASURES

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.



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7. HANDLING AND STORAGE

Handling: No special protective clothing required for handling individual cells.

Storage: Recommend to store the cell in an environment with under 70% RH free from corrosive gas within in a temperature range of -20 to 35°C. A temperature of 60°C or higher will accelerate the deterioration of battery performance.

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 cells.

Foot protection: Steel-toed shoes recommended for large container handling.

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

10. STABILITY AND REACTIVITY

Reactivity: None.

Incompatibilities: None during normal operation. Avoid exposure to heat, open flame, and corrosives.

Hazardous decomposition products: None during normal operating conditions. If cells are damaged, hydrogen fluoride and carbon monoxide may be released.

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

11. TOXICOLOGICAL INFORMATION

This product does not elicit toxicological properties during routine handling and use.

Sensitization	Teratogenicity	Reproductive toxicity	Acute toxicity
No	No	No	No

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

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12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

California regulated debris

RCRA waste code: Non-regulated.

Dispose of according to all federal, state, and local regulations.

14. TRANSPORT INFORMATION

UN No. 3480

Proper shipping name: Lithium-Ion Batteries

**Class 9 packing group II
hazard label:**

Miscellaneous

ICAO/IATA

Packing instruction: 965

**Maximum gross weight per
package on passenger and
cargo aircraft:**

5 kg

**Maximum gross weight per
package on cargo only aircraft:**

35 kg

Special provision: A45, A88, A99

IMO

Packing instruction: P903

Special provision: 188, 230, 310, 957

EmS: F-A, S-I

US DOT

This product is not subject to any other requirements of dangerous goods under 49 CFR 173.185 (Lithium Batteries and Cells).

15. REGULATORY INFORMATION

**OSHA hazard communication
standard (29 CFR 1910.1200):** Hazardous

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.



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16. OTHER INFORMATION

For further information, see: For more information, consult the Technical Data Sheet (www.lgchem.com).

Sources of key data used to compile the datasheet:

Information contained in this safety data sheet is based on LG Chem owned data and public sources deemed valid or acceptable. The absence of data elements indicates, that no data meeting these requirements is available.

Further information:

This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality.