

Date: November 2025

SKF MPT states that this **Safety Data Sheet & UN38.3 test report** pertains to the batteries included in the following designations:

TLGB series

TLGB 21 & TLGB 21-2 & TLGB 21-9

TLGB 1262 E & 1261

TLGB 1871

TLGB 1886E



SKF MPT (Maintenance Products, Power Transmission, Tools & Equipment)

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PRODUCT SAFETY DATA SHEET

Product Name: Lithium-Ion Battery Packs (less than or equal to 100 Watt Hours)

*** Section 1 – Identification ***

Product Identifier: Detachable Battery Packs

Alemite
(20 Volt) – 343291, 343521

Lincoln
(12 Volt) – 1261
(20 Volt) – 1871, 1872

SKF
(20 Volt) – 280151, TLGB 21-9, TLGB 20-2, TLGB 21-2

Manufacturer Name: Stanley Black & Decker

Manufacturer Address: 1000 Stanley Drive
New Britain, CT 06053

Phone Number: +1-860-225-5111

Emergency Phone Number: Chemtrec: +1 703-741-5970 / +1-800-424-9300

Recommended Use: To power Stanley Black & Decker products

Uses advised against: See instruction manual provided with product.

*** Section 2 - Hazards Identification ***

Classification

These batteries are not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). The batteries referenced in this document are considered “Articles,” not “Materials,” as defined by the Occupational Safety and Health Administration’s Hazard Communication Standard, and as such are exempted from the requirements to publish MSDS sheets per the Code of Federal Regulations 29 CFR 1910.1200 (b)(6)(v). The hazards indicated below cover the abnormal situation where a battery ruptures.

Acute Toxicity – Oral	Category 4
Acute Toxicity – Dermal	Category 4
Acute Toxicity – Inhalation (Vapors)	Category 3
Acute Toxicity – Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1A

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Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

GHS Label elements, including precautionary statements

Signal Word	Danger		
Hazard Statements			
Harmful if swallowed			
Harmful in contact with skin			
Fatal if inhaled			
Causes severe skin burns and eye damage			
May cause an allergic skin reaction			
May cause cancer			
May damage fertility or the unborn child			
May cause respiratory irritation			
Causes damage to organs through prolonged or repeated exposure			
This product is an article (battery) which contains chemical substances. Intended use of the product should not result in exposure to the chemical substances. In case of rupture, the above hazards exist.			
Appearance Solid	Physical state Solid		Odor None

Emergency Overview

*** Section 3 - Composition / Information on Ingredients ***

This battery is an article as defined by 29 CFR 1910.1200. Exposure to hazardous ingredients is not anticipated under normal product use.

Chemical Name	CAS No.	Weight - %	Trade Secret
Copper	7440-50-8	10-30	*
Steel Manufacture, chemicals	65997-19-5	7-13	*
Lithium hexafluorophosphate (LiPF6)	21324-40-3	1-3	*

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Aluminum	7429-90-5	7-13	*
Lithium manganese oxide (LiMn2O4)	12057-17-9	5-10	*
Lithium Cobalt Oxide (LiCoO2)	12190-79-3	5-10	*
Lithium Nickel Manganese Cobalt Oxide (LiNiMnCoO2)	346417-97-8	5-10	*
Lithium nickel cobalt aluminum oxide (LiNiCoAlO2)	193214-24-3	5-10	*
Nickel	7440-02-0	3-7	*
Mixed Organic carbonates		10-14	*

* The exact percentage (concentration) of composition has been withheld as a trade secret. Composition of organic carbonates in the electrolyte solvent varies.

*** Section 4 – First-Aid Measures ***

First Aid: Eyes

Flush eyes with lukewarm water for at least 30 minutes while holding the eyelids open. Seek immediate medical care.

First Aid: Skin

Remove contaminated clothing, shoes and leather goods. Flush with water for at least 30 minutes. Seek medical attention if symptoms persist. **First Aid: Ingestion**

Never give anything by mouth if victim is unconscious. Rinse mouth thoroughly with water. Do not induce vomiting. Seek immediate medical attention.

First Aid: Inhalation

Remove person to fresh air away from source of contamination.

*** Section 5 – Fire-Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

Battery cells may rupture when exposed to excessive heat. Electrolyte solution is flammable. Hazardous

Combustion Products

May release toxic fumes if burned or exposed to fire.

Extinguishing Media

Use appropriate extinguishing agent for surrounding fire. For damaged or ruptured cells, use Class D extinguisher or other appropriate agent. Class C fire extinguishers should be used to extinguish electrical fires. Do not use water to extinguish electrical or ruptured cell related fires.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Stop the flow of material, if this is without risk.

Clean-Up Procedures

Absorb spill with inert material. Shovel material into appropriate container for disposal. Clean spill area with detergent and water; collect wash water for proper disposal.

Evacuation Procedures

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Isolate area. Keep unnecessary personnel away.

Special Procedures

Avoid skin contact with the spilled material.

***** Section 7 - Handling and Storage *****

Handling Procedures

Avoid damaging or rupturing battery.

Storage Procedures

Store in a dry location at room temperature. Avoid extreme heat or fire. Keep out of reach of children.

***** Section 8 - Exposure Controls / Personal Protection *****

A: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Not necessary under normal product use conditions.

PERSONAL PROTECTIVE EQUIPMENT Personal Protective Equipment: Eyes/Face

Not necessary under normal product use conditions. Wear safety glasses if handling a damaged battery.

Personal Protective Equipment: Skin

Not necessary under normal product use conditions. Wear neoprene or natural rubber gloves when handling a damaged battery.

Personal Protective Equipment: Respiratory

Not necessary under normal product use conditions.

Personal Protective Equipment: General

Eyewash fountains and emergency showers are required.

***** Section 9 - Physical and Chemical Properties *****

Appearance: Various shaped battery	Odor: None
Physical State: Solid	pH: NA
Vapor Pressure: NA	Vapor Density: NA
Boiling Point: NA	Melting Point: NA
Solubility (H ₂ O): Insoluble	Specific Gravity: NA
Evaporation Rate: NA	VOC: NA
Octanol/H ₂ O Coeff.: NA	Flash Point: NA
Flash Point Method: NA	Upper Flammability Limit (UFL): NA
Lower Flammability Limit (LFL): NA	Burning Rate: NA
Auto Ignition: NA	

***** Section 10 - Stability and Reactivity *****

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Avoid exposure to elevated temperatures and fire.

Incompatibility Not Available.

Hazardous Decomposition

May release toxic fumes if burned or exposed to fire.

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Possibility of Hazardous Reactions Not Available.

*** Section 11 - Toxicological Information ***

Acute Dose Effects A: General Product Information

If product is ruptured, material may cause irritation to the skin, eyes and respiratory tract.

B: Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

Carcinogenicity A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 - Ecological Information ***

Ecotoxicity A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Recycle battery. Do not dispose of in water bodies or sewer system. All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 – Transport Information ***

Lithium-ion batteries comply with all applicable shipping regulations as prescribed by industry and legal standards which include UN Recommendations on the Transport of Dangerous Goods; the 65th Edition of the IATA Dangerous Goods Regulations and US DOT requirements. Cells and Batteries have been tested to section 38.3 of the UN Recommendations on the Transport of Dangerous Goods Manual of Tests and Criteria. All the batteries listed in this Safety Data Sheet are less than or equal to 100 Wh; therefore, air shipment of up to 2 batteries without equipment in a package can be shipped as an "excepted" quantity and does not require being shipped as a fully regulated Class 9 Hazardous Material. If more than 2 batteries without equipment are being shipped in one package, using air transportation, then the package is considered a fully regulated shipment and must meet the more stringent documentation, marking, and labeling requirements. All air shipments of lithium ion batteries without equipment require the state of charge of the battery to be no greater than 30% of the rated design capacity and are banned from shipment on passenger aircraft (Cargo Aircraft Only).

Batteries Alone

UN3480, Lithium Ion Batteries

Air Shipments (IATA) – Packing Instruction 965 (Section IB)

Sea Shipments (IMDG Code, 2024 Edition (including amendment 42-24) – Special Provision 188

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Europe Road Transportation (ADR) – Special Provision 188

US Road Transportation (DOT) – 49 CFR 173.185(c)

Batteries with or in Equipment

UN3481, Lithium Ion Batteries packed with equipment OR Lithium Ion Batteries contained in equipment.

Air Shipments (IATA) – Packing Instruction 966 or 967, Section II

Sea Shipments (IMDG Code, 2024 Edition (including amendment 42-24) – Special Provision 188

Europe Road Transportation (ADR) – Special Provision 188

US Road Transportation (DOT) – 49 CFR 173.185(c)

***** Section 15 - Regulatory Information *****

US Federal Regulations A: General Product Information All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis

None of these products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations A: General Product Information No additional information available.

B: Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI. Canadian WHMIS Information

A: General Product Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.

B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

None

European Union

- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Section: H2

Description: ACUTE TOXIC Lower-tier requirements: 50

Upper-tier requirements: 200

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Limitations to commercialization and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Product classified hazardous under the CMR. Sale and distribution of damaged batteries to the general public is prohibited. Due to its CMR category, it is essential to apply the specific measures for workplace hazard prevention covered in articles 4 and 5 of the 2004/37/EC Directive and later modifications for the manipulation of damaged batteries.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

* * * Section 16 - Other Information * * *

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration, NJTSR = New Jersey Trade Secret Registry, WHMIS = Workplace Hazardous Materials Information System (Canada)



NO.212500203698327



运输危险性鉴定书

Hazard Classification and Identification Report for Transport of Goods

锂电池类物品

样品名称： 锂离子电池包 TLGB 21-2 20V 2.5Ah 50Wh

Sample name: LI-ION BATTERY TLGB 21-2 20V 2.5Ah 50Wh

委托单位： 百得(苏州)精密制造有限公司
Black & Decker (Suzhou) Precision Manufacturing Co., Ltd.

生产单位： 百得(苏州)精密制造有限公司
Black & Decker (Suzhou) Precision Manufacturing Co., Ltd.



上海化工院检测有限公司
SHANGHAI INSTITUTE OF CHEMICAL INDUSTRY TESTING CO.,LTD.



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Hazard Classification and Identification Report
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样品名称 Sample Name	中文 Chinese	锂离子电池包 TLGB 21-2 20V 2.5Ah 50Wh				
	英文 English	LI-ION BATTERY TLGB 21-2 20V 2.5Ah 50Wh				
委托单位 Applicant	百得(苏州)精密制造有限公司 Black & Decker (Suzhou) Precision Manufacturing Co., Ltd.					
生产单位 Manufacturer	百得(苏州)精密制造有限公司 Black & Decker (Suzhou) Precision Manufacturing Co., Ltd.					
检验方法、程序 Inspection method and procedure	国际海事组织《国际海运危险货物规则》(2022版) IMO International Maritime Dangerous Goods Code (2022 Edition)					
样品外观 Sample appearance	黑色, 蓝色双色塑胶外壳 Black and blue Plastics cement shell					
包装件信息 Package information	重量≤30kg. weight≤30kg.					
序号 NO.	电池种类 Battery type	型号 Model	容量Capacity /锂含量Li content	放置方式 Placement		
1	可充电锂离子电池组 Rechargeable Li-ion battery	TLGB 21-2	2.5Ah/50Wh	电池单独运输 Battery only		
鉴定 结论	IDENTIFICATION CONCLUSION	1. 危险性识别(Hazards identification) 锂离子电池。 Lithium ion battery.				
		2. 海运按照国际海事组织《国际海运危险货物规则》办理的类项(Suggestion according to IMO IMDG Code) 根据特殊规定188, 该物品不受IMO IMDG Code其他条款限制。 The article is not subject to other provisions of IMO IMDG Code according to special provision 188.				
		3. 包装要求(Packaging requirements) 无。 None.				
检验日期: Inspection Date:		2024-11-30	签发日期: Issue Date:	2024-12-01	生效日期: Effective Date:	2025-01-01
备注 Comment						

批准
Approver: 王宝审核
Checker: 钱世鸣主检
Appraiser: 孙清

运输危险性鉴定书

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序号 No.	检验结果及其他事项 Inspection results and other things
1	<p>本鉴定书所述锂电池按照《国际海运危险货物规则》(2022版) 2.9.4.5规定的质量管理体系进行制造。 Lithium cells and batteries listed in this report were manufactured under the quality management program described in IMDG CODE 2022 EDITION 2.9.4.5.</p>
2	<p>本鉴定书所述锂电池已通过联合国《试验和标准手册》第III部分38.3小节相应测试要求。 包装件能够承受1.2m跌落试验。 Lithium cells and batteries listed in this report are of the types proved to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3. The package has passed the 1.2m drop test. UN38.3试验概要编号 The UN38.3 Test Summary No. (s) 812100700589740 详细信息请扫描右侧二维码。 Please scan the QR code on the right for more information.</p> <div style="text-align: right;">  </div>
3	<p>锂电池完全封装在内包装内, 位于坚固的外包装中。 Lithium cells and batteries are packed in inner packagings that completely enclose the cell or battery and placed in a strong outer packaging.</p>
4	<p>电池具有适当的防短路措施。 Cells and batteries are properly protected to prevent short circuits.</p>
5	<p>每个包装件必须标示恰当的锂电池标记。 装有锂电池的包装件, 符合国际民航组织《危险物品安全航空运输技术细则》第4部分第11章的包装说明965或968第IB部分规定的, 黏贴5.2.1.10(锂电池标记)和5.2.2.2所示的9A型标签, 应视为符合本特殊规定188的规定。注:《国际海运危险货物规则》(2020版)5.2.1.10中显示电话号码附加信息的锂电池标记, 可继续使用至2026年12月31日。 Each package shall be marked with the appropriate lithium battery mark. Packages containing lithium batteries packed in conformity with the provisions of part 4, chapter 11, packing instructions 965 or 968, section IB of the ICAO Technical Instructions for the Safe Transport of Dangerous Goods by air that bear the mark as shown in 5.2.1.10(lithium battery mark) and the label shown 5.2.2.2, Model No.9A shall be deemed to meet the provisions of this special provision 188. Note: The mark shown in 5.2.1.10(lithium battery mark) of the IMDG CODE 2020 EDITION, showing the telephone number for additional information, may continue to be applied until 31 December 2026.</p>
6	/
7	/

-验证码:548927-



LITHIUM CELLS OR BATTERIES TEST SUMMARY
IN ACCORDANCE WITH SUB-SECTION 38.3
OF UN MANUAL OF TESTS AND CRITERIA

Revision Date: Jan 1, 2025
Product Test Information

Revision Number: 1.0

Model Numbers	Physical Description	Battery Weight (kg) Mass	Battery Voltage (V)	Wh Rating	Original Tested Model Numbers	Test report Number	Test Report Date
1261	Removable Battery Pack	0.269	12V	18Wh	/	1124010864	3-18-2024
TLGB 21-2	Removable Battery Pack	0.369	20V	50Wh	1871	1122060256	7-8-2022
TLGB 21-9	Removable Battery Pack	0.652	20V	80Wh	343521	1120110612	12-27-2020

Signature

Name, Title: Steve Cao, Sr. Compliance Manager