

KOEHLER - BRIGHT STAR INC -- 158, CARBON-ZINC BATTERY (INCLUDING ZINC CHLORIDE) --  
6135-00-825-6692

===== Product Identification =====

Product ID:158, CARBON-ZINC BATTERY (INCLUDING ZINC CHLORIDE)

MSDS Date:05/05/2000

FSC:6135

NIIN:00-825-6692

Status Code:A

MSDS Number: CLFDK

=== Responsible Party ===

Company Name:KOEHLER - BRIGHT STAR INC

Address:380 STEWART ROAD

City:WILKES-BARRE

State:PA

ZIP:1

8706

Country:US

Info Phone Num:570-825-1900

Emergency Phone Num:1-570-825-1900

CAGE:71092

=== Contractor Identification ===

Company Name:KOEHLER - BRIGHT STAR INC

Address:380 STEWART ROAD

Box:City:WILKES-BARRE

State:PA

ZIP:18706

Country:US

Phone:570-825-1900

CAGE:71092

===== Composition/Information on Ingredients =====

Ingred Name:MERCURY

CAS:7439-97-6

RTECS #:OV4550000

OSHA PEL:0.1 MG/M3

ACGIH TLV:0.05 MG/M3

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:CARBON-GRAPHITE

CAS:

1333-86-4  
RTECS #:FF5800000  
Minumum % Wt:2.  
Maxumum % Wt:8.  
OSHA PEL:15 MPPCF  
ACGIH TLV:3.5 MG/M3

Ingred Name:MANGANESE DIOXIDE (AS MANGANESE)  
CAS:1313-13-9  
RTECS #:OP0350000  
Minumum % Wt:15.  
Maxumum % Wt:31.  
OSHA PEL:5 MG/M3  
ACGIH TLV:5 MG/M3

Ingred Name:ZINC (METAL)  
CAS:7440-66-6  
RTECS #:ZG8600000  
Minumum % Wt:17.  
Maxumum % Wt:42.  
OSHA PEL:15 MG/M3  
ACGIH TLV:124 MG/M3  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:ZINC CHLORIDE  
CAS:7646-85-7  
RTECS #:ZH1400000  
Minumum % Wt:2.  
Maxumum  
% Wt:7.  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3  
ACGIH STEL:2 MG/M3  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:AMMONIUM CHLORIDE  
CAS:12125-02-9  
RTECS #:BP4550000  
= Wt:1.  
ACGIH TLV:10 MG/M3  
ACGIH STEL:20 MG/M3  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ZINC OXIDE  
CAS:1314-13-2  
RTECS #:ZH4810000  
&lt; Wt:.1  
OSHA PEL:15 MG/M3  
ACGIH TLV:1 MG/M3

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===== Hazards Identification =====

Health Hazards Acute and Chronic:NOT APPLICABLE UNDER NORMAL  
COND

ITIONS. IF BATTERY CASE IS RUPTURED, ELECTROLYTE (POTASSIUM HYDROXIDE) MAY CAUSE BURNS. SWALLOWING: MAY CAUSE BURNS OF MOUTH, THROAT, STOMACH WITH SEVERE ABDOMINAL AND CHEST PAIN, NAUSEA, VOMITING, DIARRHEA, CHILLS, FEVER, MUSCLE PAIN, DIZZINESS, FAINTNESS, DROWSINESS, CIRCULATORY COLLAPSE, COMA. SKIN ABSORPTION: NO EVIDENCE OF ADVERSE EFFECTS. INHALATION: PARTICLES FROM CONTENTS MAY CAUSE RESPIRATORY IRRITATION. SKIN: CONTENTS CAUSE CHEMICAL BURNS, REDNESS, SWELLING

G. EYE CONTACT: SEVERE IRRITATION AND CHEMICAL BURNS OF THE CORNEA. REPEATED EXPOSURE MAY AFFECT THE CENTRAL NERVOUS SYSTEM.

Effects of Overexposure: NOT APPLICABLE FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS. IF CASE IS RUPTURED ALKALINE ELECTROLYTE MAY CAUSE FOLLOWING SYMPTOMS: EYES: IRRITATION, REDNESS, SWELLING OF CONJUNCTIVA, CORNEA BURNS. SKIN: BURNS, REDNESS, SWELLING. INHALATION: IRRITATION. INGESTION: BURNS OF MOUTH, THROAT, STOMACH, ABDOMINAL AND CHEST

PAIN, NAUSEA, VOMITING, DIARRHEA, CHILLS, FEVER, MUSCLE PAIN, DIZZINESS, FAINTNESS, DROWSINESS, CIRCULATORY COLLAPSE, COMA. REPEATED EXPOSURES: CENTRAL NERVOUS SYSTEM EFFECTS: ABNORMAL GAIT, MASK-LIKE FACE, APATHY, LOSS OF APPETITE, HEADACHE, SLEEPINESS, WEAKNESS, MEMORY LOSS, URINARY BLADDER DISTURBANCES.

Medical Cond Aggravated by Exposure: NOT APPLICABLE FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS. EXPOSURE TO CONTENTS MAY EXISTING DERMATITIS, ASTHMA, INFLAMMATORY OR FIBROTIC PULMONARY DISEASE AND EXISTING NEUROLOGICAL CONDITIONS .

===== First Aid Measures =====

First Aid: NOT APPLICABLE UNDER NORMAL CONDITIONS. IF BATTERY CASE RUPTURED, ELECTROLYTE MAY CAUSE BURNS. SWALLOWING: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION. REPORT CASES TO NATIONAL BATTERY INGESTION HOTLINE (202-625-3333; OPEN 24 HOURS/DAY) FOR ADVICE. SKIN: REMOVE CONTAMINATED CLOTHING. IF CONTENTS COME IN CONTACT WITH SKIN, WASH AREA WITH SOAP AND WATER. IF IRRITATION PERSISTS OR CONTACT PROLONGED, SEE A PHYSICIAN. INHALATION: REMOVE TO FRESH AIR. EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

===== Fire Fighting Measures =====

Flash Point: WILL NOT BURN

Extinguishing Media: USE MEDIA APPROPRIATE FOR COMBUSTIBLES IN THE AREA.

Unusual Fire/Explosion Hazard: DO NOT INCINERATE. DO NOT SUBJECT TO TEMPERATURES ABOVE 160F OR ATTEMPT TO RECHARGE

ARGE. CELL RUPTURE AND  
LEAKAGE MAY RESULT.

===== Accidental Release Measures =====

Spill Release Procedures:NOT APPLICABLE FOR FINISHED PRODUCT UNDER  
NORMAL CONDITIONS. IF THE BATTERY CASE IS RUPTURED, THE ELECTROLYTE  
(POTASSIUM HYDROXIDE) IS AN ALKALINE SUBSTANCE. USE NORMAL  
PROCEDURES FOR HANDLING CAUSTIC SOLUTIONS. WEAR APPROPRIATE  
PROTECTIVE GEAR.

===== Exposure Controls/Personal Protection =====

Supplemental Safety and H  
ealth

===== Physical/Chemical Properties =====

HCC:Z7

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:SEE INGREDIENTS FOR RECOMMENDED OSHA PEL AND  
ACGIH TLV FOR EACH INGREDIENT.

===== Disposal Considerations =====

Waste D  
isposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE  
FEDERAL, STATE, AND LOCAL REGULATIONS.

===== Other Information =====

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