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**Common Name:**

**Manufacturer:**

**MSDS Revision Date:**

**MSDS Format:**

**Grainger Item Number(s):**

**Manufacturer Model Number(s):**

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SAFETY DATA SHEET

SEALED MAINTENANCE-FREE LEAD ACID BATTERIES

**1. IDENTIFICATION OF THE PRODUCT AND COMPANY**

PRODUCT NAME: SEALED MAINTENANCE-FREE LEAD ACI

PRODUCT CODE:

2UKG8 2UKG9 2UKH1 2UKH2 2UKH3 2UKH4 2UKH5 2UKH  
2UKJ3 2UKJ4 2UKJ5 2UKJ6 2UKJ7 2UKJ8 2UKJ9 2UKK  
2UKK6 2UKK7 2UKK8 2UKK9 2UKL1 2UKL2 2UKL3 2UKL  
5EFE7 5EFE8 5EFE9 5EFF1 5EFF2 5EFF3 5EFF4 5EFF  
5EFG0 5EFG1 5EFG2 5EFG3 5EFG4 5EFG5 5EFG6 5EFG  
5EFH2 5EFH3 5EFH4 5EFH5 5EFH6 48H470 48H471

MANUFACTURER:

GRAINGER GLOBAL SOURCING  
100 GRAINGER PARKWAY,  
LAKE FOREST, IL 60045  
USA

EMERGENCY CALL:

1-800-356-2501 (GRAINGER TECHNICAL SUPPORT)  
1-800-424-9300, 1-703-527-3887 (NON-US)  
(IN THE CASE OF POISONING, CONTACT CHEMTREC)

**2. HAZARD IDENTIFICATION**

NOTE:

UNDER NORMAL CONDITIONS OF BATTERY USE, INTERNAL SHORTS  
PRESENT A HEALTH HAZARD. THE FOLLOWING INFORMATION APPLIES TO  
BATTERY ELECTROLYTE (ACID) AND LEAD FOR EXPOSURE FROM  
BATTERY PRODUCTION OR CONTAINER BREAKAGE OR UNEXPECTED  
SUCH AS FIRE.

EXCLAMATION MARK

HEALTH HAZARD

FLAME

CORROSION

ENVIRONMENT

SIGNAL WORD: DANGER

CATEGORY	GHS CODES	DESCRIPTION
HEALTH: STOT RE 2	H302	HARMFUL IF S
ACUTE TOX. 4 REPR. 1A	H314	CAUSES SEVER
SKIN CORR. 1A FLAM. GAS 1	H332	HARMFUL IF I
AQUATIC CHRONIC 1 AQUATIC ACUTE 1	H360	MAY DAMAGE F
	H373	MAY CAUSE DA PROLONGED OF
	H220	EXTREMELY FI
	H410	VERY TOXIC I LASTING EFFE
	P260	DO NOT BREAT SPRAY.
	P301/330/331	IF SWALLOWED RINSE MOUTH.
	P303/361/353	IF ON SKIN ( REMOVE/TAKE CONTAMINATED WATER/SHOWEF
	P304/340	IF INHALED: REMOVE VICTI REST IN A PC BREATHING.
	P305/351/338	IF IN EYES: RINSE CAUTIC MINUTES. REM PRESENT AND CONTINUE RIN

	P310	IMMEDIATELY DOCTOR/PHYSI
HANDLING:	P210	KEEP AWAY FR FLAMES/HOT S
	P260	DO NOT BREAT DUST/FUME/GA
	P264	WASH THOROUG
	P280	WEAR PROTECT CLOTHING/EYE
	P403	STORE IN WEI
	P405	STORE LOCKED
	P391	COLLECT SPII
	P273	AVOID RELEAS
	P501	DISPOSE OF C ACCORDANCE W INTERNATIONA

**WARNING:**

BATTERIES SUBJECTED TO ABUSIVE CHARGING AT EXC  
PROLONGED PERIODS OF TIME WITHOUT VENT CAPS IN  
SURROUNDING ATMOSPHERE OF THE OFFENSIVE STRONG  
CONTAINING SULFURIC ACID.

**REACTIVITY:**

ORGANIC MATERIALS, CHLORATES, CARBIDES, FULMIN  
REACTS VIOLENTLY WITH WATER WITH EVOLUTION OF  
STRONG OXIDIZERS, HYDROGEN PEROXIDE, ACIDS.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	CAS NUMBER
------------	------------

INORGANIC COMPOUNDS OF:

LEAD	7439-92-1
ANTIMONY	7440-36-0
LEAD DIOXIDE	1309-60-0
NON-HAZARDOUS INGREDIENT	N/A
ELECTROLYTE (SULFURIC ACID)	7664-93-9

**NOTE:**

COMPONENTS ARE FOR A FULLY CHARGED LEAD ACID BATTERY. THE ELECTROLYTE (WATER AND SULFURIC ACID SOLUTION) IS PRESENT IN ALL BATTERIES MANUFACTURED BY GRAINGER GLOBE SUBSIDIARIES. OTHER INGREDIENTS MAY BE PRESENT IN SOME BATTERIES. POLYPROPYLENE IS THE PRINCIPAL CASE MATERIAL IN ALL BATTERIES. ELECTROLYTE IN THIS PRODUCT IS NON-ABSORBED WITHIN A SOLID MATRIX.

**4. FIRST AID MEASURES**

TAKE PROPER PRECAUTIONS TO ENSURE YOU OWN HEALTH AND SAFETY. DO NOT ATTEMPT TO RESCUE A VICTIM AND PROVIDE FIRST AID UNLESS YOU ARE TRAINED TO DO SO.

**INHALATION:**

**ELECTROLYTE:**

REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING IS DIFFICULT, SEEK MEDICAL ATTENTION.

**LEAD COMPOUNDS:**

REMOVE FROM EXPOSURE, GARGLE, WASH NOSE AND MOUTH WITH WATER.

**SKIN CONTACT:**

**ELECTROLYTE:**

FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING COMPLETELY, INCLUDING SHOES, UNTIL CLEANED. IF ACID IS SPLASHED ON SHOES, REMOVE SHOES AND CLEAN LEATHER.

**LEAD COMPOUNDS:**

WASH IMMEDIATELY WITH SOAP AND WATER. LEAD COM  
ABSORBED THROUGH THE SKIN.

EYE CONTACT:

ELECTROLYTE AND LEAD COMPOUNDS:

FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER  
CONSULT PHYSICIAN IMMEDIATELY.

INGESTION:

ELECTROLYTE:

GIVE LARGE QUANTITIES OF WATER; DO NOT INDUCE

LEAD COMPOUNDS: CONSULT PHYSICIAN IMMEDIATELY.

## **5. FIREFIGHTING MEASURES**

FLASH POINT: NOT APPLICABLE

FLAMMABLE LIMITS:

LEL: 4.1% (HYDROGEN GAS IN AIR)

UEL: 74.2%

EXTINGUISHING MEDIA: CO<sub>2</sub>; FOAM; DRY CHEMICAL

FIRE FIGHTING PROCEDURES:

USE POSITIVE PRESSURE, SELF-CONTAINED BREATHIN  
SPLATTER DURING WATER APPLICATION AND WEAR ACI  
FACE AND EYE PROTECTION. IF BATTERIES ARE ON C  
CHARGING EQUIPMENT, BUT, NOTE THAT STRINGS OF  
MAY STILL POSE RISK OF ELECTRIC SHOCK EVEN WHE  
DOWN.

HAZARDOUS COMBUSTION PRODUCTS:

IN OPERATION, OR WHEN ON CHARGE, BATTERIES GEN  
HYDROGEN AND OXYGEN GASES (HYDROGEN IS HIGHLY  
COMBUSTION). THEY MUST ALWAYS BE ASSUMED TO CC  
IGNITED BY BURNING CIGARETTE, NAKED FLAME OR S  
EXPLOSION WITH DISPERSION OF CASING FRAGMENTS  
ELECTROLYTE. CAREFULLY FOLLOW MANUFACTURER'S I  
AND SERVICE. KEEP AWAY ALL SOURCES OF GAS IGNI  
METALLIC ARTICLES TO SIMULTANEOUSLY CONTACT TH

TERMINALS OF A BATTERY.

## **6. ACCIDENTAL RELEASE MEASURES**

REMOVE COMBUSTIBLE MATERIALS AND ALL SOURCES OF  
MATERIAL AND CONTAIN SPILL BY DIKING WITH SODA  
NEUTRALIZE SPILL WITH SODA ASH, ETC. MAKE CERTAIN TO  
COLLECT RESIDUE AND PLACE IN A DRUM OR OTHER CONTAINER  
LABEL SPECIFYING "CONTAINS HAZARDOUS WASTE" OF  
DISTRIBUTOR REGARDING PROPER LABELING PROCEDURES FOR  
WASTE. IF BATTERY IS LEAKING, PLACE BATTERY IN  
WEAR ACID RESISTANT BOOTS, FACE SHIELD, CHEMICAL  
RESISTANT GLOVES. DO NOT ALLOW DISCHARGE OF AC BATTERY  
MANAGED IN ACCORDANCE WITH APPROVED LOCAL, STATE, OR FEDERAL  
CONSULT STATE ENVIRONMENTAL AGENCY AND/OR FEDERAL AGENCY

## **7. HANDLING AND STORAGE**

### **HANDLING:**

SINGLE BATTERIES POSE NO RISK OF ELECTRIC SHOCK  
RISK OF ELECTRIC SHOCK FROM STRINGS OF CONNECTED  
12-VOLT UNITS. BATTERIES ARE NON-SPILLABLE - PREVENT  
CONTENTS ONLY DURING RECYCLING OR IF OUTER CASE IS DAMAGED

### **STORAGE:**

STORE BATTERIES UNDER ROOF IN COOL, DRY, WELL-  
SEPARATED FROM INCOMPATIBLE MATERIALS AND FROM  
FLAMES, SPARKS, OR HEAT. KEEP AWAY FROM METALS  
THE TERMINALS ON A BATTERY AND CREATE A DANGER SIGN

### **CHARGING:**

THERE IS A POSSIBLE RISK OF ELECTRIC SHOCK FROM  
FROM STRINGS OF SERIES CONNECTED BATTERIES, WHEN  
SHUT-OFF POWER TO CHARGERS WHENEVER NOT IN USE  
ANY CIRCUIT CONNECTIONS. BATTERIES BEING CHARGED  
FLAMMABLE HYDROGEN GAS. CHARGING SPACE SHOULD  
VENT CAPS IN POSITION. PROHIBIT SMOKING AND ALL  
SPARKS NEARBY. WEAR FACE AND EYE PROTECTION WHEN  
CHARGED.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS (MG/M3) :

INGREDIENT	US OSHA	US ACGIH	US NIOSH
------------	------------	-------------	-------------

INORGANIC FORMS OF:

LEAD	0.05	0.05	0.05
LEAD DIOXIDE	0.05 (B)	0.05 (B)	0.05 (E)
ANTIMONY	0.5	0.5	0.5
ELECTROLYTE (SULFURIC ACID/WATER SOLUTION)	1	0.2	1

NOTES:

(A) AS INHALABLE AEROSOL

(B) AS INORGANIC LEAD

(C) THORACIC FRACTION

(D) BASED ON OELS OF AUSTRIA, BELGIUM, DENMARK  
NETHERLANDS, SWITZERLAND, & UK

ENGINEERING CONTROLS (VENTILATION) :

STORE AND HANDLE IN WELL-VENTILATED AREA. IF M  
USED, COMPONENTS MUST BE ACID-RESISTANT. HANDI  
MAKE CERTAIN VENT CAPS ARE ON SECURELY. IF BAI  
BODILY CONTACT WITH INTERNAL COMPONENTS. WEAR  
FACE PROTECTION, WHEN CHARGING OR HANDLING BAI  
MANUFACTURERS' RECOMMENDATIONS WHEN STACKING C  
METALLIC MATERIALS TO SIMULTANEOUSLY CONTACT E  
NEGATIVE TERMINALS OF THE BATTERIES. USE A BAI  
BATTERY OR PLACE HANDS AT OPPOSITE CORNERS TO  
THE VENTS. AVOID CONTACT WITH INTERNAL COMPONE



HYGIENE PRACTICES:

WASH HANDS THOROUGHLY BEFORE EATING, DRINKING BATTERIES.

RESPIRATORY PROTECTION (NIOSH/MSHA APPROVED): NONE REQUIRED UNDER NORMAL CONDITIONS. WHEN CC ACID MIST ARE KNOWN TO EXCEED PEL, USE NIOSH C PROTECTION.

SKIN PROTECTION:

NONE REQUIRED UNDER NORMAL CONDITIONS. IF BATT RUBBER OR PLASTIC ACID-RESISTANT GLOVES WITH E ACID-RESISTANT APRON, CLOTHING, AND BOOTS.

EYE PROTECTION:

NONE REQUIRED UNDER NORMAL CONDITIONS. IF BATT CHEMICAL GOGGLES OR FACE SHIELD.

OTHER PROTECTION:

IN AREAS WHERE WATER AND SULFURIC ACID SOLUTIC CONCENTRATIONS GREATER THAN 1%, EMERGENCY EYEW SHOULD BE PROVIDED, WITH UNLIMITED WATER SUPPLI

**9. PHYSICAL AND CHEMICAL PROPERTIES - ELECTROLYTE**

BOILING POINT @ 760 MMHg: 219 TO 237 DEG. F

SPECIFIC GRAVITY @ 77 DEG. F (H2O=1): 1.1394 T

MELTING POINT: NOT APPLICABLE

VAPOR PRESSURE (MMHg): 13.5 TO 20.8

% SOLUBILITY IN WATER: 100

PH: GREATER THAN 1

EVAPORATION RATE (BUTYL ACETATE=1): LESS THAN

VAPOR DENSITY (AIR=1): GREATER THAN 1

VISCOSITY: NOT APPLICABLE

APPEARANCE AND ODOR THRESHOLD:

SULFURIC ACID:

A CLEAR LIQUID WITH A SHARP, PENETRATING, PUNGENT  
ODOR. A BATTERY IS A MANUFACTURED ARTICLE; NO APPEARANCE

% VOLATILES BY VOLUME @ 70 DEG. F: NOT APPLICABLE

OCTANOL WATER PARTITION COEFFICIENT (KOW): NOT APPLICABLE

NOTE: THE PROPERTIES ABOVE REFLECT 20-40% SULFURIC ACID

## **10. STABILITY & REACTIVITY DATA**

STABILITY: STABLE

CONDITIONS TO AVOID:

PROLONGED OVERCHARGING AND OVERHEATING CURRENT  
OR SHORT CIRCUITING OF IGNITION.

INCOMPATIBILITIES: (MATERIALS TO AVOID)

ELECTROLYTE:

CONTACT OF SULFURIC ACID WITH COMBUSTIBLES AND  
FLAMMABLE LIQUIDS CAN CAUSE FIRE AND EXPLOSION. ALSO REACTS VIOLENTLY WITH  
MANY METALS, SULFUR TRIOXIDE GAS, STRONG OXIDIZING AGENTS.  
CONTACT WITH METALS MAY PRODUCE TOXIC SULFUR DIOXIDE AND  
FLAMMABLE HYDROGEN GAS. NO FURTHER CONCERN FOR

LEAD COMPOUNDS:

AVOID CONTACT WITH STRONG ACIDS, BASES, HALIDES,  
NITRATES, PERMANGANATE, PEROXIDES, NASCENT HYDROGEN,  
PHOSPHORUS, SULFUR AND REDUCING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:

ELECTROLYTE:

SULFUR TRIOXIDE, CARBON MONOXIDE, SULFURIC ACID,  
HYDROGEN SULFIDE, HYDROGEN.

LEAD COMPOUNDS:

TEMPERATURES ABOVE THE MELTING POINT ARE LIKE  
FUME, VAPOR, OR DUST; CONTACT WITH STRONG ACID  
NASCENT HYDROGEN MAY GENERATE HIGHLY TOXIC ARS

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## **11. TOXICOLOGICAL DATA**

ROUTES OF ENTRY:

ELECTROLYTE:

HARMFUL BY ALL ROUTES OF ENTRY. UNDER NORMAL C  
ACID VAPORS AND MIST ARE NOT GENERATED. SULFUR  
BE GENERATED WHEN PRODUCT IS OVERHEATED, OXIDIZED  
OR DAMAGED.

LEAD COMPOUNDS:

UNDER NORMAL CONDITIONS OF USE, LEAD DUST, VAPOR  
GENERATED. HAZARDOUS EXPOSURE CAN OCCUR-ONLY WITHIN  
THE MELTING POINT, OXIDIZED OR OTHERWISE PROCESSED  
DUST, VAPOR, OR FUME.

ACUTE TOXICITY:

INHALATION LD50:

ELECTROLYTE:

LC50 RAT: 375 MG/M3

LC50:

GUINEA PIG: 510 MG/M3

ELEMENTAL LEAD:

ACUTE TOXICITY POINT ESTIMATE: 4500 PPMV (BASED ON)

ORAL LD50:

ELECTROLYTE:

RAT: 2140 MG/KG

ELEMENTAL LEAD:

ACUTE TOXICITY ESTIMATE (ATE):

500 MG/KG BODY WEIGHT (BASED ON LEAD BULLION)

INHALATION:

ELECTROLYTE:

BREATHING OF SULFURIC ACID VAPORS OR MISTS MAY IRRITATION.

LEAD COMPOUNDS:

INHALATION OF LEAD DUST OR FUMES MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT AND LUNGS.

INGESTION:

ELECTROLYTE:

MAY CAUSE SEVERE IRRITATION OF MOUTH, THROAT,

LEAD COMPOUNDS:

ACUTE INGESTION MAY CAUSE ABDOMINAL PAIN, NAUSEA, AND SEVERE CRAMPING. THIS MAY LEAD RAPIDLY TO SYSTEMIC TOXICITY. INGESTION SHOULD BE TREATED BY PHYSICIAN.

SKIN CONTACT:

ELECTROLYTE:

SEVERE IRRITATION, BURNS, AND ULCERATION. SULFURIC ACID IS NOT ABSORBED THROUGH THE SKIN AND IS NOT A DERMAL IRRITANT.

LEAD COMPOUNDS:

NOT READILY ABSORBED THROUGH THE SKIN AND ARE

EYE CONTACT:

ELECTROLYTE: SEVERE IRRITATION, BURNS, CORNEAL IRRITATION.  
LEAD COMPOUNDS: MAY CAUSE EYE IRRITATION.

SYNERGISTIC PRODUCTS:

ELECTROLYTE: NO KNOWN SYNERGISTIC PRODUCTS

LEAD COMPOUNDS:

SYNERGISTIC EFFECTS HAVE BEEN NOTED WITH HEAVY METALS (SUCH AS MERCURY), N-NITROSO-N-(HYDROXYETHYL)ETHYLAMINE, ACETAMIDE, 2-(NITROSOETHYLAMINE)ETHANOL, AND E

ANTIMONY OXIDE: NO SYNERGISTIC EFFECTS FOUND

ADDITIONAL INFORMATION:

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXF  
OVEREXPOSURE TO SULFURIC ACID MIST MAY CAUSE I  
PULMONARY CONDITIONS. CONTACT OF ELECTTOLYTE ( (  
SOLUTION) WITH SKIN MAY AGGRAVATE SKIN DISEASE  
DERMATITIS. CONTACT OF ELECTROLYTE (WATER AND  
EYES MAY DAMAGE CORNEA AND/OR CAUSE BLINDNESS.  
AGGRAVATE SOME FORMS OF KIDNEY, LIVER, AND NEU

ADDITIONAL HEALTH DATA:

ALL HEAVY METALS, INCLUDING THE HAZARDOUS INGR  
TAKEN INTO THE BODY PRIMARILY BY INHALATION AN  
PROBLEMS CAN BE AVOIDED BY ADEQUATE PRECAUTION  
RESPIRATORY PROTECTION COVERED IN SECTION 8.

FOLLOW GOOD PERSONAL HYGIENE TO AVOID INHALATI  
WASH HANDS, FACE, NECK AND ARMS THOROUGHLY BEF  
LEAVING THE WORK SITE. KEEP CONTAMINATED CLOTH  
AREAS, OR WEAR COVER CLOTHING WHEN IN SUCH ARE  
PRESENCE OF FOOD, TOBACCO AND COSMETICS TO NON  
CLOTHES AND WORK EQUIPMENT USED IN CONTAMINATE  
DESIGNATED AREAS AND NEVER TAKEN HOME NOR LAUN  
NON-CONTAMINATED CLOTHING.

THIS PRODUCT IS INTENDED FOR INDUSTRIAL USE ON  
FROM CHILDREN AND THEIR ENVIRONMENT.

## **12. ECOLOGICAL INFORMATION**

ENVIRONMENTAL FATE:

LEAD IS VERY PERSISTENT IN SOIL AND SEDIMENTS.  
DEGRADATION. MOBILITY OF METALLIC LEAD BETWEEN  
SLOW. BIOACCUMULATION OF LEAD OCCURS IN AQUATI  
AND PLANTS BUT LITTLE BIO ACCUMULATION OCCURS  
STUDIES INCLUDE LEAD COMPOUNDS AND NOT ELEMENT

ENVIRONMENTAL TOXICITY:

AQUATIC TOXICITY:

SULFURIC ACID:

24-HR LC50, FRESHWATER FISH (BRACHYDANIO RERIC

96 HR-LOEC, FRESHWATER FISH (CYPRLNUS CARPIO):

LEAD:

48 HR LC50 (MODELED FOR AQUATIC INVERTEBRATES)

<1 MG/L, BASED ON LEAD BULLION

### **13. DISPOSAL INFORMATION**

US:

SULFURIC ACID:

NEUTRALIZE AS DESCRIBED ABOVE FOR A SPILL, COI  
CONTAINER LABELED AS CONTAINING HAZARDOUS WAST  
WASTE. IF UNCERTAIN ABOUT LABELING PROCEDURES,  
DISTRIBUTOR OR LISTED CONTACT. DO NOT FLUSH LE  
SEWER.

SPENT BATTERIES:

SEND TO SECONDARY LEAD SMELTER FOR RECYCLING F  
STATE, AND LOCAL REGULATIONS.

### **14. TRANSPORT INFORMATION**

PROPER SHIPPING NAME: BATTERIES, NON-SPILLABLE

U.S DOT (US DEPARTMENT OF TRANSPORTATION):

UNREGULATED, MEETS THE REQUIREMENT OF 49 CFR 1

IATA AND ICAO:

UNREGULATED:

MEETS THE REQUIREMENTS OF SPECIAL REVISION A67  
MEET THE SPECIAL PROVISION 238, THEY ARE EXEME  
PROVIDED THAT THE BATTERIES' TERMINALS ARE PRC  
CIRCUITS.

IMO: UNREGULATED.

GRAINGER GLOBAL SOURCING SEAL LEAD-ACID BATTERIES AS "NON-SPILLABLE" FOR THE PURPOSE OF TRANSPORTATION. A PASS RESULT OF PASSING THE VIBRATION AND PRESSURE TESTS IN DOT [49 CFR 173.159(D)] AND IATA/ICAO [SPECIAL PERMIT]

GRAINGER GLOBAL SOURCING SEAL LEAD-ACID BATTERIES ON DECK, OR UNDER DECK STORED ON EITHER A PASS RESULT OF PASSING THE VIBRATION AND PRESSURE TESTS

DIFFERENTIAL TESTS AS DESCRIBED IN THE REGULATIONS TO TRANSPORT THESE BATTERIES AS "NON-SPILLABLE" CONDITION THAT WOULD PROTECT THEM FROM SHORT-CIRCUITING. PACKAGED SO AS TO WITHSTAND CONDITIONS NORMAL FOR A CONSUMER, IN OR OUT OF A DEVICE, THEY ARE UNREQUIRING OF ANY ADDITIONAL SPECIAL HANDLING OR PACKAGING.

FOR ALL MODES OF TRANSPORTATION, EACH BATTERY MUST BE PACKAGED NON-SPILLABLE PER 49 CFR 173.155(D). IF YOU REPACK BATTERIES OR AS A COMPONENT OF ANOTHER PRODUCT, THE BATTERY PACKAGE MUST BE NON-SPILLABLE PER 49 CFR 173.155(D).

## **15. REGULATORY INFORMATION**

UNITED STATES:

EPA SARA TITLE III:

SECTION 302 EPCRA EXTREMELY HAZARDOUS SUBSTANCES: SULFURIC ACID IS A LISTED "EXTREMELY HAZARDOUS" SUBSTANCE WITH A THRESHOLD PLANNING QUANTITY (TPQ) OF 1,000 LBS.

EPCRA SECTION 302 NOTIFICATION IS REQUIRED IF SULFURIC ACID IS PRESENT AT ONE SITE (40 CFR 370.10).

AN AVERAGE AUTOMOTIVE/COMMERCIAL BATTERY CONTAINS SULFURIC ACID. CONTACT YOUR EXIDE REPRESENTATIVE FOR MORE INFORMATION.

SECTION 304 CERCLA HAZARDOUS SUBSTANCES: SULFURIC ACID IS A REPORTABLE QUANTITY (RQ) FOR SPILLED 100% SULFURIC ACID (SUPERFUND) AND EPCRA (EMERGENCY PLANNING AND RESPONSE) IS 1,000 LBS. STATE AND LOCAL REPORTABLE QUANTITIES MAY VARY.

ACID MAY VARY.

SECTION 311/312 HAZARD CATEGORIZATION:

EPCRA SECTION 312 TIER TWO REPORTING IS REQUIRED FOR LEAD-ACID BATTERIES IF SULFURIC ACID IS PRESENT IN QUANTITIES OF 10% AND/OR IF LEAD IS PRESENT IN QUANTITIES OF 10,

SECTION 313 EPCRA TOXIC SUBSTANCES:

SUPPLIER NOTIFICATION:

THIS PRODUCT CONTAINS A TOXIC CHEMICAL OR CHEMICAL MIXTURE. REPORTING REQUIREMENTS OF SECTION 313 OF THE FEDERAL TOXIC SUBSTANCE AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND

CHEMICAL	CAS
LEAD (Pb)	7439-9
ELECTROLYTE: SULFURIC ACID (H <sub>2</sub> SO <sub>4</sub> )	7664-9
ANTIMONY (Sb)	7440-3
LEAD DIOXIDE (PbO <sub>2</sub> )	1309-6

IF YOU DISTRIBUTE THIS PRODUCT TO OTHER MANUFACTURERS THROUGHOUT THE UNITED STATES THROUGHOUT THE YEAR, THIS INFORMATION MUST BE PROVIDED TO EACH MANUFACTURER EACH CALENDAR YEAR.

NOTE:

THE SECTION 313 SUPPLIER NOTIFICATION REQUIREMENTS DO NOT APPLY TO BATTERIES THAT ARE "CONSUMER PRODUCTS".

TSCA:

EACH INGREDIENT CHEMICAL LISTED IN SECTION III OF THE TSCA REGISTRY.

OSHA: CONSIDERED HAZARDOUS UNDER HAZARD COMMUNICATIONS REGULATIONS.

RCRA:

SPENT LEAD-ACID BATTERIES ARE NOT REGULATED AS HAZARDOUS WASTE. SPILLED SULFURIC ACID IS A CHARACTERISTIC HAZARDOUS WASTE NUMBER D002 (CORROSIVITY).



CAA:

GRAINGER GLOBAL SOURCING SUPPORTS PREVENTATIVE DEPLETION IN THE ATMOSPHERE DUE TO EMISSIONS C DEPLETING CHEMICALS (ODC'S), DEFINED BY THE US PURSUANT TO SECTION 611 OF THE CLEAN AIR ACT A FINALIZED ON JANUARY 19, 1993, EXIDE ESTABLISH THE USE OF CLASS I ODC'S PRIOR TO THE MAY 15,

NFPA HAZARD RATING FOR SULFURIC ACID:

HEALTH (BLUE) 3

FLAMMABILITY (RED) 0

REACTIVITY (YELLOW) 2

US STATE	IDENTIFICATION	NOTIFICATIO
NOTIFICATIONS & WARNINGS		

CALIFORNIA	CALIFORNIA PROPOSITION 65	"WARNING: THIS PRODUC KNOWN TO TH CAUSE CANCER REPRODUCTIV
------------	------------------------------	--

BATTERY POS  
ACCESSORIES  
COMPOUNDS,  
OF CALIFORN  
REPRODUCTIV  
CONTAIN OTH  
STATE OF CA  
WASH HANDS

THE FOLLOWI  
EXIST IN TH  
DISTRIBUTED  
THE STATE C  
BIRTH DEFEC  
HARM:

1. STRONG I  
INCLUDING S  
CAS #: NA;
2. LEAD ANL  
CAS #. 7439

CONSUMER PRODUCT THIS PRODU  
 VOLATILE ORGANIC CONSUMER PR  
 COMPOUND CARB/OTC VC  
 EMISSIONS FOR THE INT  
 INDUSTRIAL/

COUNTRY/ ORGANIZATION CANADA	IDENTIFICATION  ALL CHEMICAL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE CEPA DSL/NDSL OR ARE EXEMPT FROM LIST REQUIREMENTS.  NPRI AND ONTARIO REGULATION 127/01  TOXIC SUBSTANCES LIST	NOTIF  THIS IN AC CRITE PRODU CONTA REQUI PRODU  REFER REGUI REQUI  THIS FOLLC THE F CANAD REG.  CHEMI  LEAD  SULFU  LEAD
EU	EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS) :	ALL I FINIS INTO INCLU INVEN CHEMI

**16. OTHER INFORMATION**

DATE ISSUED: SEPTEMBER 11, 2013

OTHER INFORMATION:

DISTRIBUTION INTO QUEBEC TO FOLLOW CANADIAN CC  
(CPR) 24(1) AND 24(2).

DISTRIBUTION INTO THE EU TO FOLLOW APPLICABLE  
IMPORT/EXPORT OF THE PRODUCT AS-SOLD.

SOURCES OF INFORMATION:

INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (1  
EVALUATION OF CARCINOGENIC RISKS TO HUMANS:

OVERALL EVALUATIONS OF CARCINOGENICITY:

AN UPDATING OF IARC MONOGRAPHS VOLUMES 1-42, S  
ONTARIO MINISTRY OF LABOR REGULATION 654/86. F  
EXPOSURE TO CHEMICAL OR BIOLOGICAL AGENTS.

VENDEE AND THIRD PERSONS ASSUME THE RISK OF IN  
THE MATERIAL IF REASONABLE SAFETY PROCEDURES A  
FOR IN THE DATA SHEET, AND VENDOR SHALL NOT BE  
OR THIRD PERSONS PROXIMATELY CAUSED BY ABNORMA  
IF REASONABLE PROCEDURES ARE FOLLOWED.

ALL PERSONS USING THIS PRODUCT, ALL PERSONS WC  
PRODUCT IS USED, AND ALL PERSONS HANDLING THIS  
WITH THE CONTENTS OF THIS DATA SHEET. THIS INF  
EFFECTIVELY COMMUNICATED TO EMPLOYEES AND OTHE  
WITH THE PRODUCT.

WHILE THE INFORMATION ACCUMULATED AND SET FORT  
ACCURATE AS OF THE DATE HEREOF, GRAINGER GLOBA  
WITH RESPECT THERETO AND DISCLAIMS ALL LIABILI  
RECIPIENTS ARE ADVISED TO CONFIRM TN ADVANCE C  
IS CURRENT, APPLICABLE, AND SUITABLE FOR THEIR

ANY PHOTOCOPY MUST BE OF THIS ENTIRE DOCUMENT

MSDS NO.: JTAC2014111303

VER. NO.: 1

ISSUE DATE: NOVEMBER 13, 2014

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**MSDS**

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SEALED MAINTENANCE-FREE LEAD ACID BATTERIES

GRAINGER GLOBAL SOURCING

11/13/2014

GHS-US

2UKG8, 2UKG9, 2UKH1, 2UKH2, 2UKH3, 2UKH4,  
2UKH5, 2UKH6, 2UKH7, 2UKH8, 2UKJ1, 2UKJ2,  
2UKJ3, 2UKJ4, 2UKJ5, 2UKJ6, 2UKJ7, 2UKJ8, 2UKJ9,  
2UKK1, 2UKK2, 2UKK3, 2UKK4, 2UKK5, 2UKK6,  
2UKK7, 2UKK8, 2UKK9, 2UKL1, 2UKL2, 2UKL3,  
2UKL4, 2UKL5, 2UKL6, 2UKL7, 2UKL8, 48H470,  
48H471, 5EEH1, 5EEH3, 5EFE7, 5EFE8, 5EFE9,  
5EFF1, 5EFF2, 5EFF3, 5EFF4, 5EFF5, 5EFF6, 5EFF7,  
5EFF8, 5EFF9, 5EFG0, 5EFG1, 5EFG2, 5EFG3, 5EFG4,  
5EFG5, 5EFG6, 5EFG7, 5EFG8, 5EFG9, 5EFH0,  
5EFH2, 5EFH4, 5EFH5, 5EFH6

4

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1D BATTERIES

16 2UKH7 2UKH8 2UKJ1 2UKJ2  
11 2UKK2 2UKK3 2UKK4 2UKK5  
14 2UKL5 2UKL6 2UKL7 2UKL8  
15 5EFF6 5EFF7 5EFF8 5EFF9  
17 5EFG8 5EFG9 5EFH0 5EFH1



ALL COMPONENTS WILL NOT  
OPERATION IS PROVIDED FOR  
PERIODS THAT MAY OCCUR DURING  
OPERATION UNDER EXTREME HEAT CONDITIONS

SWALLOWED.

RE SKIN BURNS AND EYE DAMAGE.

INHALED.

TERILITY OR THE UNBORN CHILD.

DAMAGE TO ORGANS THROUGH  
REPEATED EXPOSURE.

FLAMMABLE GAS (HYDROGEN)

TO AQUATIC LIFE WITH LONG  
EFFECTS.

THE DUST/FUME/GAS/MIST/VAPORS/

):

DO NOT INDUCE VOMITING.

(OR HAIR):

OFF IMMEDIATELY ALL  
CLOTHING. RINSE SKIN WITH  
WATER.

MOVE TO FRESH AIR AND KEEP AT  
REST POSITION COMFORTABLE FOR

WASH EYES THOROUGHLY WITH WATER FOR SEVERAL  
MINUTES. REMOVE CONTACT LENSES, IF  
EASY TO DO.  
DO NOT USE EYE DROPS.

CALL A POISON CENTER OR  
PHYSICIAN.

AWAY FROM HEAT/SPARKS/OPEN  
SURFACES. NO SMOKING

AVOID CONTACT WITH THE  
EYES/NOSE/MOUTH/SKIN/HAIR  
/EARS/HAIR. WASH FACE  
/EYES/HAIR IMMEDIATELY  
IF CONTACT OCCURS.

WASH HANDS THOROUGHLY  
AFTER HANDLING.

WEAR RESISTANT GLOVES/  
PROTECTIVE CLOTHING/  
EYE PROTECTION/FACE  
PROTECTION.

USE IN WELL-VENTILATED  
AREA

DO NOT BREATHE  
DUST.

DO NOT  
RELEASE

DO NOT REUSE OR  
RECYCLE

DO NOT DISPOSE OF  
CONTENTS/CONTAINER IN  
LANDFILL WITHOUT  
CHECKING WITH LOCAL/  
REGIONAL/NATIONAL/  
STATE REGULATIONS.

EXCESSIVELY HIGH CURRENTS FOR  
A SHORT PERIOD OF TIME  
IN A CONFINED PLACE MAY  
CREATE A HAZARDOUS  
SITUATION. INORGANIC ACID  
MIST

AVOID CONTACT WITH  
FLAMMABLE LIQUIDS,  
GASES, WATER, POWDERED  
METALS. CORROSIVE TO  
METALS.



% BY WT.



44-57

1.0

19-26

15-22

23-27

DESIGN. INORGANIC LEAD AND  
ARE THE PRIMARY COMPONENTS  
SAL SOURCING OR ITS  
DEPENDENT UPON BATTERY TYPE.  
OF AUTOMOTIVE AND COMMERCIAL  
SPILL AND COMPLETELY



WITH AND SAFETY BEFORE  
GET AID.

IS DIFFICULT, GIVE OXYGEN.

IPS; CONSULT PHYSICIAN.

15 MINUTES; REMOVE  
GOGGLES, AND DO NOT WEAR AGAIN  
REMOVE AND DISCARD IF THEY

1POUNDS ARE NOT READILY

FOR AT LEAST 15 MINUTES;

VOMITING; CONSULT PHYSICIAN.



IG APPARATUS. BEWARE OF ACID  
ID-RESISTANT CLOTHING, GLOVES,  
HARGE, SHUT OFF POWER TO THE  
SERIES CONNECTED BATTERIES  
IN CHARGING EQUIPMENT IS SHUT

ERATE AND RELEASE FLAMMABLE  
FLAMMABLE AND OXYGEN SUPPORTS  
NTAIN THIS GAS WHICH, IF  
PARK, MAY CAUSE BATTERY  
AND CORROSIVE LIQUID  
NSTRUCTIONS FOR INSTALLATION  
TION AND DO NOT ALLOW  
IE NEGATIVE AND POSITIVE



OF IGNITION. STOP FLOW OF  
ASH, ETC. CAREFULLY  
AIN MIXTURE IS NEUTRAL THEN  
SUITABLE CONTAINER WITH A  
(IF UNCERTAIN CALL  
ES). DISPOSE OF AS HAZARDOUS  
A HEAVY DUTY PLASTIC BAG.  
AL SPLASH GOGGLES AND ACID  
ID TO SEWER. ACID MUST BE  
TE, AND FEDERAL REQUIREMENTS.  
RAL EPA.



OK BUT THERE MAY BE INCREASING  
ED BATTERIES EXCEEDING THREE  
POTENTIAL FOR EXPOSURE TO  
ING IS CRACKED OR DAMAGED.

VENTILATED AREAS THAT ARE  
1 ACTIVITIES WHICH MAY CREATE  
IC OBJECTS THAT COULD BRIDGE  
OUS SHORT-CIRCUIT.

CHARGING EQUIPMENT AND  
ETHER OR NOT BEING CHARGED.  
AND BEFORE DETACHMENT OF  
ED WILL GENERATE AND RELEASE  
BE VENTILATED. KEEP BATTERY  
VOID CREATION OF FLAMES AND  
EN NEAR BATTERIES BEING



QUEBEC	ONTARIO	EU
PEV	OEL	OEL

0.05	0.05	0.15 (A)
------	------	----------

3) 

0.05 (B)	0.05 (B)	0.15 (A)
----------	----------	----------

0.5	0.5	0.5 (A, D)
-----	-----	------------

1	0.2	0.05 (C)
---	-----	----------

4, FRANCE, GERMANY,

MECHANICAL VENTILATION IS  
USE BATTERIES CAUTIOUSLY.  
IF BATTERY CASE IS DAMAGED, AVOID  
WEAR PROTECTIVE CLOTHING, EYE AND  
EAR PROTECTIVES. FOLLOW ALL  
SAFETY INSTRUCTIONS FOR  
UNLOADING OR PALLETIZING. DO NOT ALLOW  
BATTERIES TO CONTACT BOTH THE POSITIVE AND  
NEGATIVE TERMINALS OF THE BATTERY CARRIER TO LIFT A  
BATTERY. AVOID SPILLING ACID THROUGH  
GAPS OR CRACKS BETWEEN THE TERMINALS OF THE BATTERIES.

OR SMOKING AFTER HANDLING

CONCENTRATIONS OF SULFURIC  
OR MSHA-APPROVED RESPIRATORY

EVERY CASE IS DAMAGED, USE  
ELBOW-LENGTH GAUNTLET,

EVERY CASE IS DAMAGED,

CASES ARE HANDLED IN  
WASH STATIONS AND SHOWERS  
ONLY.



NO 1.3028

MENT ODOR.

INT ODOR.

ABLE

! APPLICABLE

URIC ACID



!; SPARKS AND OTHER SOURCES

) ORGANIC MATERIALS MAY CAUSE

I STRONG REDUCING AGENTS,

IZERS, AND WATER. CONTACT

UMES AND MAY RELEASE

\ MECHANICAL IMPACT

IS, HALOGENATES, POTASSIUM

ROGEN, CARBIDES, SULFIDES

!D MIST, SULFUR DIOXIDE,

Y TO PRODUCE TOXIC METAL  
) OR BASE OR PRESENCE OF  
;INE GAS.



CONDITIONS OF USE, SULFURIC  
IC ACID VAPORS AND MIST MAY  
ZED, OR OTHERWISE PROCESSED

ORS, AND FUMES ARE NOT  
HEN PRODUCT IS HEATED ABOVE  
SSED OR DAMAGED TO CREATE

ED ON LEAD BULLION)

CAUSE SEVERE RESPIRATORY

IRITATION OF UPPER RESPIRATORY

ESOPHAGUS, AND STOMACH.

SEA, VOMITING, DIARRHEA, AND  
HEMIC TOXICITY. ACUTE

MURIC ACID IS NOT READILY  
SENSITIZER.

NOT DERMAL SENSITIZERS.

DAMAGE, BLINDNESS.

METALS (ARSENIC, CADMIUM,  
, N-(4-FLUORO-4-BIPHENYL)  
BENZO[A]PYRENE.



EXPOSURE:

ENVIRONMENTAL DAMAGE AND AGGRAVATE  
EFFECTS (WATER AND SULFURIC ACID  
EFFECTS SUCH AS ECZEMA AND CONTACT  
EFFECTS (SULFURIC ACID SOLUTION) WITH  
LEAD AND ITS COMPOUNDS CAN  
CAUSE CHRONIC DISEASES.

INGREDIENTS IN THIS PRODUCT, ARE  
HARMFUL BY INGESTION. MOST INHALATION  
EFFECTS SUCH AS VENTILATION AND

BY INGESTION AND INGESTION:

AVOID EATING, SMOKING OR  
DRINKING OUT OF NON-CONTAMINATED  
AREAS. RESTRICT THE USE AND  
AVOID NON-CONTAMINATED AREAS. WORK  
IN CONTAMINATED AREAS MUST REMAIN IN  
CONTAMINATED AREAS WITH PERSONAL

AREAS SHOULD BE ISOLATED



NO DATA ON ENVIRONMENTAL  
EFFECTS IN ECOLOGICAL COMPARTMENTS IS  
AVAILABLE FOR AQUATIC AND TERRESTRIAL ANIMALS  
EXPOSED THROUGH THE FOOD CHAIN. MOST  
EFFECTS ARE FROM LEAD.

) : 82 MG/L  
22 MG/L

:

 top

LECT RESIDUE AND PLACE IN A  
E. DISPOSE OF AS A HAZARDOUS  
CALL YOUR LOCAL BATTERY  
AD CONTAMINATED ACID TO

OLLOWING APPLICABLE FEDERAL,

 top

), ELECTRIC STORAGE

.73.159 (D)

'IF NON-SPILLABLE BATTERIES  
'T FROM ALL IMDG CODES  
'TECTED AGAINST SHORT

RIES ARE CLASSIFIED AS  
TION BY DOT, AND IATA/ICAO AS  
DIFFERENTIAL TEST DESCRIBED  
L PROVISION A67].

RIES CAN BE SAFELY TRANSPORTED  
SENGER OR CARGO VESSEL AS

IONS.:

" THEY MUST BE SHIPPED IN A  
IRCUITS AND BE SECURELY  
TO TRANSPORTATION BY A  
GULATED THUS REQUIRING NO

OUTER PACKAGE IS LABELED  
KAGE OUR BATTERIES EITHER AS  
YOU MUST LABEL THE OUTER



ES (EHS):  
SUBSTANCE" UNDER EPCRA,  
000 LBS.

500 LBS OR MORE OF SULFURIC

AINS APPROXIMATELY 5 LBS OF  
VE FOR ADDITIONAL

URIC ACID UNDER CERCLA  
COMMUNITY RIGHT TO KNOW ACT)  
ITIES FOR SPILLED SULFURIC

ED FOR NON-AUTOMOTIVE  
ITIES OF 500 LBS OR MORE  
000 LBS OR MORE.

ICALS SUBJECT TO THE  
E) III OF THE SUPERFUND  
) 40 CFR PART 372.

PERCENT BY WEIGHT

2-1 44-57

3-9 23-27

6-0 1.0

0-0 19-26

ACTURERS IN SIC CODES 20  
WITH THE FIRST SHIPMENT OF

MENT DOES NOT APPLY TO

: OF THIS SDS IS ALSO LISTED

ICATION ACT (29CFR1910.1200)

; HAZARDOUS WASTE WHEN  
RISTIC HAZARDOUS WASTE; EPA

; ACTIONS CONCERNING OZONE  
OF CFCS AND OTHER OZONE  
EPA AS CLASS I SUBSTANCES.  
AMENDMENTS (CAAA) OF 1990,  
IED A POLICY TO ELIMINATE  
1993 DEADLINE.

ONS/WARNING

'T CONTAINS LEAD, A CHEMICAL  
IE STATE OF CALIFORNIA TO  
R, OR BIRTH DEFECTS OR OTHER  
E HARM."

'TS, TERMINALS, AND RELATED  
; CONTAIN LEAD AND LEAD  
CHEMICALS KNOWN TO THE STATE  
IA TO CAUSE CANCER AND  
E HARM. BATTERIES ALSO  
IER CHEMICALS KNOWN TO THE  
ALIFORNIA TO CAUSE CANCER.  
AFTER HANDLING.

NG CHEMICALS IDENTIFIED TO  
IE FINISHED PRODUCT AS  
) INTO COMMERCE ARE KNOWN TO  
OF CALIFORNIA TO CAUSE CANCER,  
'TS OR TO CAUSE REPRODUCTIVE

INORGANIC ACID MISTS

SULFURIC ACID:

23-27% WT

) LEAD COMPOUNDS:

)-92-1; 63-83% WT.

IT IS NOT REGULATED AS A  
PRODUCT FOR PURPOSES OF  
OC REGULATIONS, AS SOLD  
ENDED PURPOSE AND INTO THE  
COMMERCIAL SUPPLY CHAIN.

ICATIONS/WARNING

PRODUCT HAS BEEN CLASSIFIED  
CORDANCE WITH THE HAZARD  
RIA OF THE CONTROLLED  
ICTS REGULATIONS AND THE SDS  
AINS ALL THE INFORMATION  
RED BY THE CONTROLLED  
ICTS REGULATIONS.

TO THE CONTROLLED PRODUCTS  
ATIONS FOR PRODUCT LABELING  
REMENTS.

PRODUCT CONTAINS THE  
WING CHEMICALS SUBJECT TO  
REPORTING REQUIREMENTS OF  
A NPRI AND/OR ONT.

127/01:

ICAL	CAS #	%WT
	7439-92-1	63-83
TRIC ACID	7664-93-9	23-27

INGREDIENTS REMAINING IN THE  
SHED PRODUCT AS DISTRIBUTED  
COMMERCE ARE EXEMPT FROM, OR  
DED ON, THE EUROPEAN  
TORY OF EXISTING COMMERCIAL  
ICAL SUBSTANCES.

CONTROLLED PRODUCT REGULATIONS

DIRECTIVES TO THE USE,

1987), IARC MONOGRAPHS ON THE

SUPPLEMENT 7, LYON, FRANCE.  
REGULATIONS RESPECTING

INJURY PROXIMATELY CAUSED BY  
IF NOT FOLLOWED AS PROVIDED  
IS LIABLE FOR INJURY TO VENDEE  
UNLAWFUL USE OF THE MATERIAL EVEN

WORKING IN AN AREA WHERE THIS  
PRODUCT SHOULD BE FAMILIAR  
INFORMATION SHOULD BE  
PERSONS WHO MIGHT COME IN CONTACT

WHICH HEREIN IS BELIEVED TO BE  
UNLAWFUL SOURCING MAKES NO WARRANTY  
OF LIABILITY FROM RELIANCE THEREON.  
IF NEEDED THAT THE INFORMATION  
IS PARTICULAR CIRCUMSTANCES.

