ITEM: 4GA69 - Battery Pack 14.4V NiCd 1.7A/hr.

ORDER: 0131027099

LP NUMBER: U856769194

As. _ated Grainger Items
5JC25, 11U032, 2904506, 6350373, 23X761, 23X762, 23X763, 23X764, 23X765
5JX766, 23X767, 23X768, 23X769, 23X770, 23X771, 2PB23, 2PB24, 2PB25, 2HV
23X766, 23X767, 23X768, 23X769, 23X770, 23X771, 2PB23, 2PB24, 2PB25, 2HV
2HVI2, 2HVI3, 8UXJ3, 8VRD1, 9KCG9, 9MD73, 9PXR2, 1PKW3, 2PB22, 6004515
6250817, 6272271, 1XCRW4, 1XCRW5, 3CRK8, 3FRN3, 6042941, 6354542, 6361591
6347248, 2XY55, 2XY56, 2XY57, 1GEB4, 1GEB4, 1GEB4, 1GEB4, 1GEBA, 1GEBA, 1GEBA, 1GEBA, 1GEB2, 1GEB2, 1GEB3, 1GEB4, 1GEB2, 1GEB4, 1GEB2, 1GEB2, 1GEB2, 1GEC1, 1GEC2, 1I
16C31, 16C32, 16C9C5, 1GEC7, 1GEC8, 1GEC9, 1GED1, 1GED4, 1EC28, 1EC29, 1I
1EC31, 1EC32, 1EZ37, 1EZ38, 1EZ39, 1PX99, 1PZ10, 1PZ11, 1PZ12, 1PZ14, 1I
1PZ16, 1PZ17, 1PZ18, 1PZ19, 1PZ20, 1PZ21, 1PZ22, 1PZ23, 1PZ24, 1PZ25, 1I
1PZ216, 1PZ17, 1PZ18, 1PZ19, 1PZ20, 1PZ21, 1PZ22, 1PZ23, 1PZ24, 1PZ25, 1I
1PZ16, 1PZ17, 1PZ18, 1PZ19, 1PZ20, 2NY21, 2NY22, 2NY24, 2NY25, 3AB13, 3J
3EB89, 3EB90, 3KA75, 3KA76, 3KA77, 3KA76, 3KA79, 3KA80, 3LA56, 3LA57, 3I
3LA75, 3LA76, 3MY90, 3PA28, 3WE97, 3WE98, 3WY80, 48645, 4BUT0, 4EB26, 4EB29, 4EB29, 4EB30, 4EB31, 4EB32, 4EB33, 4EB34, 4EB35, 4EB36, 4EB37, 41
4EB23, 4EB40, 4EB41, 4EB42, 4EB43, 4EB86, 4EB87, 4EB88, 4EB89, 4GA68, 44
4GA70, 4GA75, 4GA76, 4GA77, 4GA79, 4GA80, 4GD32, 4GD74, 4JB70, 4JB71, 4 1GEB1 1PZ15 3LA58 4EB27 4EB32, 4EB43, 4GA79, 4LF47, 4YK33, 5MP80, 6HD91, 4EB42 4GA77 4JB84 4JB70, 4VX21, 4YL24, 5MP84, 4JB76 4LF48, 4YL20, 5MP81, 4VW99, 4YL22, 5MP82, 4VX20, 4YL23, 5MP83, 4JB81 4JB82 4JB83 4WL38 4YB73 4YK30, 5MP74, 6GD51, 4YK32 5MP77 4YL25, 5MP85, 4YB77 4YK29 5MP39 5ZM45 6GD52. 6RM76, 6RM72, 6RM73 6RM77 6RM79 6XG84 **6XG85** 6XJ68 9GPP2

5A190 5ZM44 1AUZ3, 1A R37, 7YR38 6RM78 1, 5GFF2, 1WXN2, 7YI 17, 2AEU8, 12, 2AEW3, 1PJK8, 7YR39, 2AEV5, 2VDJ4, 270, 1W 2AEU4, 2AEV9, 6275051 7YR40, , 6354: 7YR41, R37, 7Y 2AEV3, 2VDJ2, 2AEV4 2AEV7 2AEV8 2AEW1, 3HFV8, 2VDT3 3HFV9, 3HFW1, 3HFX2, 3HFX3, 3HFW4, 3HFX6, 3HFW5 3HFX8 2VD 19 2RDZ5 3HFV7 3HFW7 3HFY1 3HFW8 3HFY2 3HFW9 3HFY3 3HFX1, 3EME5, 3HFW6 5RHP1. 2XY64, 4NLP9 1MEW6

4NLR3, 4NLR1, 4NLR2, 9XJA7, 4NZU2, 2XY63 2XY65 4NLP5 4NLP6 4NLP8, 2XY62 2VDK6 3KNJ2, 4NZT9, 4NZV2, 4RE79, 4NZT2, 4NZU4, 4RE63, 9XH24, 4NZU1, 4NZT1, 4NZU3, 4NZT3 4NZU5 4NZT4 4NZU6 4LEX4 7AH22 7AH26 3MT64 4NZT6 4NZU8 4NZT7 4NZT8 NZVI, 4NZV2, 4NZV3, 4RE53, 4RE618, 4RE618, 4RE79, 4RE81, 4RE83, 4RE818, 4RE93, 4RE91, 4RU113, 4RE61. 4RE65 4RE67 4RE85, 4RU16, 3YZH9, 4RE87, 4RU17, 3YZJ2, 3YZH1, 4RE69 4RE71 4RE75 4RE77 4RE89 4RE91 4RE93 4RE95 4RE97 4RE99 4RU19 3KGA3 4RU20, 5YN52, 8EY63, 3YZF1, 3YZJ8, 1UNB8, 3YZH5, 3YZH1 N11, 21XM99, 21XN06 1UNC6 1UNC4 21XN02 21XN03, 21XN04,

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

PRODUCT NAME: CYLINDRICAL NICKEL CADMIUM BATTERY CELL

ESTABLISHMENT / REVISION: FEB. 10, 2011

21XN05

REFERENCE NUMBER: CA-CE-E01-09

MSDS: C2195

— 1. PRODUCT AND COMPANY IDENTIFICATION -

PP' T NAME: CYLINDRICAL NICKEL CADMIUM BATTERY

CC. I NAME: SANYO ELECTRIC CO., LTD. MOBILE ENERGY COMPANY

ADDRESS: 2-1 KAMINAIZEN SUMOTO CITY, HYOGO JAPAN

TELEPHONE NUMBER: +81-799-24-4111

TELEFAX NUMBER: +81-799-23-2995

EMERGENCY TELEPHONE NUMBER: (WEEKDAY): +81-799-23-2881 (NIGHT AND HOLIDAY): +81-799-24-4131

--- 2. HAZARDS IDENTIFICATION -

MOST IMPORTANT HAZARD AND EFFECTS:

FOR THE BATTERY CELL, CHEMICAL MATERIALS ARE STORED IN A HERMETICALLY SEALED METAL CASE, DESIGNED TO WITHSTAND TEMPERATURES AND PRESSURES ENCOUNTERED DURING NORMAL USE. AS A RESULT, DURING NORMAL USE, THERE IS NO PHYSICAL DANGER OF IGNITION OR EXPLOSION AND CHEMICAL DANGER OF HAZARDOUS

HOWEVER, IF EXPOSED TO A FIRE, ADDED MECHANICAL SHOCKS, DECOMPOSED, ADDED ELECTRIC STRESS BY MISUSE, THE GAS RELEASE VENT WILL BE OPERATED. THE BATTERY CELL CASE WILL BE BREACHED AT THE EXTREME, HAZARDOUS MATERIALS MAY BE RELEASED. MORBOVER, IF HEATED STRONGLY BY THE SURROUNDING FIRE, ACRID OR HARMFUL FUME MAY BE EMITTED.

HUMAN HEALTH EFFECTS:

INHALATION:

THE ELECTROLYTE INHALATION AFFECTS THE RESPIRATORY TRACT MEMERANE AND THE LUGS. CADMIUM FUME MAY CAUSE A COUCH, CHEST PAIN AND DYSPNEA. BRONCHITIS AND PNEUMONIA WILL BE OCCURRED. PROBABLY, IT IS CARCINOGEN.

THE ELECTROLYTE SKIN CONTACT AFFECTS THE SKIN SERIOUSLY AND MAY CAUSE DERMATITIS.

EYE CONTACT: THE ELECTROLYTE LEAKED FROM THE BATTERY CELL IS STRONG ALKALI, WHEN IT GOES INTO AN EYE, THE CORNEA MAY BE AFFECTED AND IT MAY LEAD TO BLINDNESS.

THE ELECTROLYTE INGESTION IRRITATES THE MOUTH AND THE THROAT SERIOUSLY RES IN VOMITING, NAUSEA, HEMATEMESIS, STOMACH PAINS AND DIARRHEA.

SINLE A BATTERY CELL REMAINS IN THE ENVIRONMENT, DO NOT THROW OUT IT INTO THE ENVIRONMENT.

SPECIFIC HAZARDS: AS PREVIOUSLY DESCRIBED.

SUBSTANCE OR PREPARATION: PREPARATION

INFORMATION ABOUT THE CHEMICAL NATURE OF PRODUCT: CAS

COMMON CHEMICAL NAM GENERAL NAME	NUMBER	CONCENTRAT CONCENTRAT RANGE	
NICKEL, NICKEL COMPOUNDS	7440-02-0	15-40%	SPECIFIC HAZARD
CADMIUM, CADMIUM COMPOUNDS	7440-43-9	10-40%	SPECIFIC HAZARD
COBALT COMPOUNDS	7440-48-4	0-3%	SPECIFIC HAZARD
CARBON BLACK	1333-86-4	0-1%	SPECIFIC HAZARD
IRON	7439-89-6 20	-65%	
POTASSIUM HYDROXID SODIUM HYDROXIDE LITHIUM HYDROXIDE	1310-73-2		ACUTE TOXICITY CORROSIVITY IRRITANT PROPERTY

- 4. FIRST-AID MEASURES -

IRRITANT PROPERTY

INTERNAL CELL MATERIALS OF AN OPENED BATTERY CELL:

COVER THE VICTIM IN A BLANKET, MOVE TO THE PLACE OF FRESH AIR AND KEEP QUIET. SEEK MEDICAL ATTENTION IMMEDIATELY. WHEN DYSPNEA (BREATHING DIFFICULTY) OR ASPHYXIA (BREATH-HOLD), GIVE ARTIFICIAL RESPIRATION IMMEDIATELY.

SALIN CONTACT:

REMOVE CONTACT:

CONTACT:

CONTACT:

CONTACT:

WASH THE ADHERENCE OR

CONTACT REGION WITH SOAP AND PLENTY OF WATER. SEEK MEDICAL ATTENTION

IMMEDIATELY.

IMMEDIATELY FLUSH EYES WITH WATER CONTINUOUSLY FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IMMEDIATELY

A BATTERY CELL AND INTERNAL CELL MATERIALS OF AN OPENED BATTERY CELL

INGESTION: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY.

5. FIRE-FIGHTING MEASURE

ALTHOUGH A BATTERY CELL IS NOT FLAMMABILITY, IN CASE OF FIRE, MOVE IT TO THE SAFE PLACE QUICKLY.

THE FOLLOWING MEASURES ARE TAKEN WHEN IT CANNOT BE MOVED.

SUITABLE EXTINGUISHING MEDIA:

DRY SAND, CHEMICAL POWDER FIRE EXTINGUISHING MEDIUM.

SPECIFIC HAZARDS: ACRID OR HARMFUL FUME IS EMITTED DURING FIRE.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: PROTECTIVE EQUIPMENT WRITTEN IN SECTION 8.

— 6. ACCIDENTAL RELEASE MEASURES —

INTERNAL CELL MATERIALS, SUCH AS ELECTROLYTE LEAKED FROM BATTERY CELL, ARE CAREFULLY DEALT WITH ACCORDING TO THE FOLLOWINGS.

PERSONAL PRECAUTIONS: FORBID UNAUTHORIZED PERSON TO ENTER. REMOVE LEAKED MATERIALS WITH PROTECTIVE EQUIPMENT WRITTEN IN SECTION 8.

ENVIRONMENTAL PRECAUTIONS: DO NOT THROW OUT INTO THE ENVIRONMENT.

METHOD OF RECOVERY AND NEUTRALIZATION: DILUTE THE LEAKED ELECTROLYTE WITH WATER AND NEUTRALIZE WITH DILUTED SULFURIC ACID. THE LEAKED SOLID IS MOVED TO A CONTAINER. THE LEAKED PLACE IS FULLY FLUSHED WITH WATER.

- 7. HANDLING AND STORAGE -

HANDLING:

TECHNICAL MEASURES:

PREVENTION OF USER EXPOSURE: NOT NECESSARY UNDER NORMAL USE.

PREVENTION OF FIRE AND EXPLOSION: NOT NECESSARY UNDER NORMAL USE.

PRECAUTION FOR SAFE HANDLING: DO NOT DAMAGE OR REMOVE THE EXTERNAL TUBE.

SPECIFIC SAFE HANDLING ADVICE:
NEVER THROW OUT CELLS IN A FIRE OR EXPOSE TO HIGH TEMPERATURES. DO NOT SOAK
CELLS IN WATER AND SEAWATER, DO NOT EXPOSE TO STRONG OXIDIZERS. DO NOT GIVE
A STRONG MECHANICAL SHOCK OR THROW DOWN. NEVER DISASSEMBLE, MODIFY OR
DEFORM. DO NOT CONNECT THE POSITIVE TERMINAL TO THE NEGATIVE TERMINAL WITH
ELECTRICALLY CONDUCTIVE MATERIAL. IN THE CASE OF CHARGING, USE ONLY
DEDICATED CHARGER OR CHARGE ACCORDING TO THE CONDITIONS SPECIFIED BY SANYO.

STORAGE:

TECHNICAL MEASURES:

STORAGE CONDITIONS (SUITABLE TO BE AVOIDED) AVOID DIRECT SUNLIGHT, HIGH TEMPERATURE, HIGH HUMIDITY.

STORE IN COOL PLACE (TEMPERATURE: -30 - 35 DEGREE C, HUMIDITY: 45 - 85%). NICKEL, NICKEL COMPOUNDS: INCOMPATIBLE PRODUCTS: CONDUCTIVE MATERIALS, WATER, SEAWATER, STRONG OXIDIZERS AND STRONG ACIDS ACUTE TOXICITY: PACKING MATERIAL (RECOMMENDED, NOT SUITABLE):
INSULATIVE AND TEAR-PROOF MATERIALS ARE RECOMMENDED. ORAL: GHS: OUT OF CATEGORY SKIN: UNKNOWN. - 8. EXPOSURE CONTROLS / PERSONAL PROTECTION -INHALATION (GAS) GHS: EXEMPT FROM A CLASSIFICATION. RING MEASURES NO ___INDECRING MEASURE IS NECESSARY DURING NORMAL USE. IN CASE OF INTERNAL CELL MATERIALS' LEAKAGE, THE INFORMATION BELOW WILL BE USEFUL. INHALATION (STEAM): UNKNOWN. INHALATION (MIST): UNKNOWN. CONTROL PARAMETERS: SKIN CORROSIVITY: UNKNOWN. COMMON CHEMICAL NAME / ACGIH (2010) GENERAL NAME AWT-WATT BET SERIOUS DAMAGE AND IRRITANT PROPERTY FOR EYES: UNKNOWN. NICKEL, NICKEL COMPOUNDS (AS Ni) RESPIRATORY OR SKIN SENSITIZATION: RESPIRATORY SENSITIZATION: METAL: 1.5 MG/MB GHS: CATEGORY 1 SOLUBLE COMPOUNDS: THE ALLERGY, ASTHMA OR BREATHING DIFFICULTIES MIGHT BE CAUSED WHEN INHALING. 0.1 MG/M3 INSOLUBLE COMPOUNDS: SKIN SENSITIZATION: 0.2 MG/M3 GHS: CATEGORY 1 (AS Cd) SIMPLE SUBSTANCE: 0.01 MG/M3 IN URINE: 5 MICRO G/G IN BLOOD: 5 MICRO G/L CADMIUM, CADMIUM COMPOUNDS THE ALLERGIC SKIN REACTION MIGHT BE CAUSED. GERMLINE MUTAGENICITY: GHS: IT IS NOT POSSIBLE TO CLASSIFY IT DUE TO DATA DEFICIENCY. COMPOUNDS: 0.002 MG/M3 CARCINOGENICITY: IN URINE: 15 MICRO G/L IN BLOOD: 1 MICRO G/L COBALT COMPOUNDS (AS Co) 0.02 MG/M3 GHS: CATEGORY 2 CARBON BLACK 3.5 MG/M3 ACGIH: (METAL) A5 - NOT SUSPECTED AS A HUMAN CARCINGGEN POTASSTIM HYDROXTDE -SOLUBLE COMPOUNDS) A4 - NOT CLASSIFIED AS A HUMAN CARCINOGEN (WATER-SO OBVIOUSLY SODIUM HYDROXIDE LITHIUM HYDROXIDE 0.025 MG/M3 ACGIH: (INSOLUBLE COMPOUNDS) A1 - CONFIRMED HUMAN CARCINOGEN ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, INC. NIOSH: POTENTIAL OCCUPATIONAL CARCINOGEN TLV-TWA: THRESHOLD LIMIT VALUE-TIME WEIGHTED AVERAGE CONCENTRATION NTP: REASONABLY ANTICIPATED TO BE HUMAN CARCINGGEN BEI: BIOLOGICAL EXPOSURE INDICES IARC: (METAL) GROUP 2B POSSIBLY CARCINGGENIC TO HIMAN PERSONAL PROTECTIVE EQUIPMENT: LARC: (COMPOUNDS) GROUP 1 CARCINOGENIC TO HUMAN RESPIRATORY PROTECTION: PROTECTIVE MASK REPRODUCTION TOXICITY: GHS: IT IS NOT POSSIBLE TO CLASSIFY IT DUE TO DATA DEFICIENCY. HAND PROTECTION: PROTECTIVE GLOVES CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (SINGLE EXPOSURE): GHS: CATEGORY 1 (RESPIRATORY ORGAN AND KIDNEY). THE DISORDER OF THE RESPIRATORY ORGAN AND THE KIDNEY IS CAUSED. PROTECTIVE GLASSES DESIGNED TO PROTECT AGAINST LIQUID SPLASHES ID BODY PROTECTION:
.J CLOTHES WITH LONG SLEEVE AND LONG TROUSERS CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (REPEATED EXPOSURE): GHS: CATEGORY 1 (RESPIRATORY ORGAN). WC. A BATTERY CELL IS NOT APPLIED TO TOXIC SUBSTANCES CONTROL ACT (TSCA), BECAUSE IT IS NOT A CHEMICAL SUBSTANCE BUT AN ARTICLE. THE DISORDER OF THE RESPIRATORY ORGAN IS CAUSED BY LONG-TERM OR REPEATED EXPOSURE. CADMIUM, CADMIUM COMPOUNDS: - 9. PHYSICAL AND CHEMICAL PROPERTIES ACUTE TOXICITY: APPEARANCE: GHS: CATEGORY 4 (SWALLOWING IS HARMFUL.) PHYSICAL STATE: SOLID SKIN: UNKNOWN. FORM: CYLINDRICAL INHALATION (DUST): GHS: CATEGORY 1 (IT IS DANGEROUS IN THE LIFE WHEN INHALING.) COLOR: METALLIC COLOR (WITHOUT TUBE) ODOR: NO ODOR SKIN CORROSIVITY: UNKNOWN. pH: NA SERIOUS DAMAGE AND IRRITANT PROPERTY FOR EYES: UNKNOWN. SPECIFIC TEMPERATURES/TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR: THERE IS NO USEFUL INFORMATION FOR THE PRODUCT AS A MIXTURE. RESPIRATORY OR SKIN SENSITIZATION: UNKNOWN. GERMLINE MUTAGENICITY: FLASH POINT: NA CATEGORY 2 THE HEREDITARY DISORDER MIGHT BE CAUSED. EXPLOSION PROPERTIES. NA CARCINOGENICITY: DENSITY: ABOUT 2.4-4.0 G/CM3 GHS: CATEGORY 1A GHS: CATEGORY IA
ACGIH: A2 - SUSPECTED HUMAN CARCINOGEN
NIOSH: POTENTIAL OCCUPATIONAL CARCINOGEN
NTP: KNOWN TO BE A HUMAN CARCINOGEN
IARC: GROUP 1 CARCINOGENIC TO HUMAN SOLUBILITY, WITH INDICATION OF THE SOLVENT(S): INSOLUBLE IN WATER - 10. STABILITY AND REACTIVITY -REPRODUCTION TOXICITY: STABILITY: STABLE UNDER NORMAL USE GHS: CATEGORY 2
HARMFUL EFFECTS ON REPRODUCTIVE CAPACITY OR FETUS MIGHT BE EXERTED. HAZARDOUS REACTIONS OCCURRING UNDER SPECIFIC CONDITIONS: BY MISUSE OF A BATTERY CELL OR THE LIKE, OXYGEN OR HYDROGEN ACCUMULATES IN THE CELL AND THE INTERNAL PRESSURE RISES. THESE GASES MAY BE EMITTED THROUGH THE GAS RELEASE VENT. WHEN FIRE IS NEAR, THESE GASES MAY TAKE FIRE. CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (SINGLE EXPOSURE): GHS: CATEGORY 1

DAMAGE OF LUNGS AND THE RESPIRATORY ORGAN IS CAUSED.

OVEREXPOSURE CAUSES THE PULMONARY DISORDER. CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (REPEATED EXPOSURE): ${\tt GHS:\ CATEGORY\ 1}$

WHEN A BATTERY CELL IS HEATED STRONGLY BY THE SURROUNDING FIRE, ACRID OR HARMFUL FUME MAY BE EMITTED.

CONDITIONS TO AVOID: DIRECT SUNLIGHT, HIGH TEMPERATURE AND HIGH HUMIDITY

MATERIALS TO AVOID

CONDUCTIVE MATERIALS, WATER, SEAWATER, STRONG OXIDIZERS AND STRONG ACIDS

OUS DECOMPOSITION PRODUCTS:

R HARMFUL FUME IS EMITTED DURING FIRE.

- 11. TOXICOLOGICAL INFORMATION

THERE IS NO DATA AVAILABLE ON THE PRODUCT ITSELF. THE INFORMATION OF THE INTERNAL CELL MATERIALS IS AS FOLLOWS.

THE DISORDER OF THE KIDNEY, LUNGS, BLOOD, BONE, AND RESPIRATORY ORGAN IS CAUSED BY LONG-TERM OR REPEATED EXPOSURE.

COBALT, COBALT COMPOUNDS:

ACUTE TOXICITY:

GHS: OUT OF CATEGORY.

SKIN: UNKNOWN.

INHALATION (GAS): GHS: EXEMPT FROM A CLASSIFICATION.

INHALATION (STEAM): UNKNOWN.

INHALATION (MIST):
GHS: IT IS NOT POSSIBLE TO CLASSIFY IT DUE TO DATA DEFICIENCY.

SKIN CORROSIVITY: UNKNOWN.

3 DAMAGE AND IRRITANT PROPERTY FOR EYES: UNKNOWN.

RELLATIONY OR SKIN SENSITIZATION: RESPIRATORY SENSITIZATION: GHS: CATEGORY 1

THE ALLERGY, ASTHMA OR BREATHING DIFFICULTIES MIGHT BE CAUSED WHEN INHALING.

SKIN SENSITIZATION:

THE ALLERGIC SKIN REACTION MIGHT BE CAUSED.

GERMLINE MUTAGENICITY: UNKNOWN.

CARCINOGENICITY: GHS: CATEGORY 2

ACGIH: A3 - CONFIRMED ANIMAL CARCINOGEN BUT RELEVANCE TO HUMAN CARCINOGEN IS A3 - CON UNKNOWN.

LARC: GROUP 2B POSSIBLY CARCINOGENIC TO HUMAN.

THE CANCER MIGHT BE CAUSED.

REPRODUCTION TOXICITY:

CATEGORY

THE ADVERSE EFFECT ON REPRODUCTIVE COMPETENCE OR THE FETUS MIGHT OCCUR.

CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (SINGLE EXPOSURE): GHS: CATEGORY 3 (RESPIRATORY TRACT IRRITATING PROPERTIES). THE RESPIRATORY ORGAN MIGHT BE STIMULATED.

CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (REPEATED EXPOSURE): GHS: CATEGORY 1 (RESPIRATORY ORGAN).

THE DISORDER OF THE RESPIRATORY ORGAN IS CAUSED BY LONG-TERM OR REPEATED EXPOSURE.

CARBON BLACK:

ACUTE TOXICITY:

ORAL: RAT LD50: 15400 MG/KG

SKIN: INKNOWN.

INHALATION (DUST): UNKNOWN.

SK ORROSIVITY: UNKNOWN.

S DAMAGE AND IRRITANT PROPERTY FOR EYES: UNKNOWN.

RESPIRATORY OR SKIN SENSITIZATION: RESPIRATORY SENSITIZATION: UNKNOWN. SKIN SENSITIZATION: UNKNOWN.

GERMLINE MUTAGENICITY: UNKNOWN.

CARCINOGENICITY: GHS: CATEGORY 2

ACGIH: A3 - CONFIRMED ANIMAL CARCINOGEN BUT RELEVANCE TO HUMAN CARCINOGEN IS UNKNOWN.

IARC: GROUP 2B POSSIBLY CARCINOGENIC TO HUMAN.

THE CANCER MIGHT BE CAUSED

REPRODUCTION TOXICITY: UNKNOWN.

CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (SINGLE EXPOSURE): UNKNOWN.

CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (REPEATED EXPOSURE): GHS: CATEGORY 1

THE DISORDER OF THE PULMONARY IS CAUSED BY LONG-TERM OR REPEATED INHALATION EXPOSURE.

POTASSIUM HYDROXIDE:

ACUTE TOXICITY:

SKIN:

GHS: CATEGORY 3. HARMFUL IF SWALLOWED.

GHS: IT IS NOT POSSIBLE TO CLASSIFY. INHALATION (STEAM): GHS: IT IS NOT POSSIBLE TO CLASSIFY.

INHALATION (DUST): GHS: IT IS NOT POSSIBLE TO CLASSIFY.

SKIN CORROSIVITY:

GHS: CATEGORY 1B. SERIOUS CHEMICAL WOUND OF THE SKIN AND DAMAGE OF EYES IS CAUSED.

SERIOUS DAMAGE AND IRRITANT PROPERTY FOR EYES:

ATEGORY 1.

RE. ATORY OR SKIN SENSITIZATION:

RESPIRATORY SENSITIZATION:

GHS: IT IS NOT POSSIBLE TO CLASSIFY.

SKIN SENSITIZATION:

GHS: OUT OF CATEGORY.

GERMLINE MUTAGENICITY: GHS: OUT OF CATEGORY.

CARCINGGENICITY: GHS: IT IS NOT POSSIBLE TO CLASSIFY.

REPRODUCTION TOXICITY: GHS: IT IS NOT POSSIBLE TO CLASSIFY.

CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (SINGLE EXPOSURE):

GHS: CATEGORY 1.
THE DISORDER OF THE RESPIRATORY SYSTEM IS CAUSED.

CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (REPEATED EXPOSURE): GHS: IT IS NOT POSSIBLE TO CLASSIFY.

SODIUM HYDROXIDE:

ACUTE TOXICITY:

ORAL: GHS: IT IS NOT POSSIBLE TO CLASSIFY.

SKIN:

GHS: IT IS NOT POSSIBLE TO CLASSIFY.

INHALATION (GAS): GHS: OUT OF CATEGORY. INHALATION (STEAM): UNKNOWN. INHALATION (DUST): UNKNOWN.

SKIN CORROSIVITY:

GHS: CATEGORY 1. SERIOUS CHEMICAL WOUND OF THE SKIN AND DAMAGE OF EYES IS CAUSED.

SERIOUS DAMAGE AND IRRITANT PROPERTY FOR EYES:

GHS: CATEGORY 1. SERIOUS DAMAGE OF EYES IS CAUSED.

RESPIRATORY OR SKIN SENSITIZATION:

RESPIRATORY SENSITIZATION:

GHS: IT IS NOT POSSIBLE TO CLASSIFY

SKIN SENSITIZATION: GHS: OUT OF CATEGORY.

GERMLINE MUTAGENICITY: GHS: OUT OF CATEGORY

CARCINOGENICITY: GHS: IT IS NOT POSSIBLE TO CLASSIFY.

REPRODUCTION TOXICITY:

GHS: IT IS NOT POSSIBLE TO CLASSIFY.

CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (SINGLE EXPOSURE): GHS: CATEGORY 1 (RESPIRATORY SYSTEM).
THE DISORDER OF THE RESPIRATORY ORGAN IS CAUSED.

CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (REPEATED EXPOSURE): GHS: IT IS NOT POSSIBLE TO CLASSIFY.

LITHIUM HYDROXIDE:

ACTUTE TOXICITY:

ORAL: GHS: CATEGORY 3. HARMFUL IF SWALLOWED.

SKIN: UNKNOWN.

INHALATION (STEAM): UNKNOWN.

INHALATION (DUST): GHS: CATEGORY 3. HARMFUL IF INHALED.

SKIN CORROSIVITY:

GHS: CATEGORY 1. SERIOUS CHEMICAL WOUND OF THE SKIN AND DAMAGE OF EYES IS CAUSED.

SERIOUS DAMAGE AND IRRITANT PROPERTY FOR EYES:

RESPIRATORY OR SKIN SENSITIZATION.

RESPIRATORY SENSITIZATION: GHS: IT IS NOT POSSIBLE TO CLASSIFY.

SKIN SENSITIZATION: GHS: IT IS NOT POSSIBLE TO CLASSIFY.

GERMLINE MUTAGENICITY: UNKNOWN.

CARCINOGENICITY: UNKNOWN.

REPRODUCTION TOXICITY: UNKNOWN.

CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (SINGLE EXPOSURE):

CATEGORY

THE DISORDER OF THE RESPIRATORY SYSTEM IS CAUSED BY INHALATION EXPOSURE.

CERTAIN TARGET ORGAN/SYSTEMIC TOXICITY (REPEATED EXPOSURE): GHS: CATEGORY 1&2.

THE DISORDER OF THE RESPIRATORY SYSTEM IS CAUSED BY LONG-TERM OR REPEATED INHALATION EXPOSURE. THE DISORDER OF THE LIVER AND THE HEMATOPOIETIC SYSTEM BY LONG-TERM OR REPEATED ORAL EXPOSURE MIGHT BE CAUSED.

- 12. ECOLOGICAL INFORMATION -

PERSISTENCE/DEGRADABILITY: SINCE A BATTERY CELL AND THE INTERNAL MATERIALS REMAIN IN THE ENVIRONMENT, DO NOT BURY OR THROW OUT INTO THE ENVIRONMENT.

BIOACCUMULATION:
CADMIUM BIOACCUMULATION OCCURS IN PLANTS AND MARINE FOOD IN HUMAN FOOD

- 13. DISPOSAL CONSIDERATIONS

RECOMMENDED METHODS FOR SAFE AND ENVIRONMENTALLY PREFERRED DISPOSAL:

PRODUCT (WASTE FROM RESIDUES):
DO NOT THROW OUT A USED BATTERY CELL. RECYCLE IT THROUGH THE RECYCLING
COMMONNY.

C IINATED PACKAGING:
NE...ER A CONTAINER NOR PACKING IS CONTAMINATED DURING NORMAL USE, WHEN
INTERNAL MATERIALS LEAKED FROM A BATTERY CELL CONTAMINATES THEM, DISPOSE
THEM AS INDUSTRIAL WASTES SUBJECT TO SPECIAL CONTROL.

- 14. TRANSPORT INFORMATION

THIS BATTERY DOESN'T CORRESPOND TO DANGEROUS ARTICLE OF THE UNITED NATIONS TRANSPORTATION REGULATIONS. MOREOVER, THIS ARTICLE DOESN'T CORRESPOND TO DANGEROUS ARTICLE TO WHICH TRANSPORTATION IS RESTRICTED BY THE FOLLOWING DECREE AND GUIDELINE.

TECHNICAL INSTRUCTIONS FOR THE SAFE TRANSPORT OF DANGEROUS GOODS BY AIR (ICAO)

LATA DANGEROUS GOODS REGULATIONS (LATA)

INTERNATIONAL MARITIME DANGEROUS GOODS CODE (IMO)

CODE OF FEDERAL REGULATIONS (U.S.DOT): HOMEVER, IT IS NECESSARY TO OBEY THE LATA DANGEROUS GOODS REGULATIONS (A123).

IN THE CASE OF TRANSPORTATION, CONFIRM NO LEAKAGE AND NO SPILLAGE FROM A CONTAINER. TAKE IN A CARGO OF THEM WITHOUT FALLING, DROPPING AND BREAKAGE. PREVENT COLLAPSE OF CARGO PILES AND WET BY RAIN. THE CONTAINER MUST BE HANDLED CAREFULLY. DO NOT GIVE SHOCKS THAT RESULT IN A MARK OF HITTING ON A CELL. MOREOVER, TAKE THE PROTECTION MEASURES NOT SHORT-CIRCUITED. PLEASE REFER TO SECTION 7-HANDLING AND STORAGE ALSO.

- 15. REGULATORY INFORMATION

REGULATIONS SPECIFICALLY APPLICABLE TO THE PRODUCT: WASTES MANAGEMENT AND PUBLIC CLEANING LAW (JAPAN) LAW FOR PROMOTION EFFECTIVE UTILIZATION OF RESOURCES (JAPAN) MERCURY-CONTAINING AND RECHARGEABLE BATTERY MANAGEMENT ACT (USA) COMMISSION DIRECTIVE 2006/66/EC (EU)

- 16. OTHER INFORMATION -

THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET IS BASED ON THE PRESENT STATE OF KNOWLEDGE AND CURRENT LEGISLATION.

THIS SAFETY DATA SHEET PROVIDES GUIDANCE ON HEALTH, SAFETY AND ENVIRONMENTAL ASPECTS OF THE PRODUCT AND SHOULD NOT BE CONSTRUED AS ANY GUARANTEE OF TECHNICAL PERFORMANCE OR SUITABILITY FOR PARTICULAR APP. TCATIONS.

CHEMICAL SUBSTANCES INFORMATION:
JAPAN ADVANCED INFORMATION CENTER OF SAFETY AND HEALTH

INTERNATIONAL CHEMICAL SAFETY CARDS (ICSCS): INTERNATIONAL OCCUPATIONAL SAFETY AND HEALTH INFORMATION CENTER (CIS)

2010 TLVS AND BEIS: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH)

NIOSH CARCINCGEN LIST: NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)

THE NINTH REPORT ON CARCINOGEN: NATIONAL TOXICOLOGY PROGRAM (NTP)

LARC MONOGRAPHS PROGRAM ON THE EVALUATION OF CARCINOGENIC RISKS TO HUMANS: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (LARC)

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELING OF CHEMICALS (GHS)

NATIONAL INSTITUTE OF TECHNOLOGY AND EVALUATION (NITE)

FIRST EDITION: DEC. 1, 2003

LATEST EDITION: FEB. 10, 2011

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