

VARTA BATTERIE AG -- SEALED NICKEL-CADMIUM ACCUMULATOR -- 6140-01-113-0014

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Product Identification
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Product ID:SEALED NICKEL-CADMIUM ACCUMULATOR

MSDS Date:12/01/1989

FSC:6140

NIIN:01-113-0014

MSDS Number: BWSVR

=== Responsible Party ===

Company Name:VARTA BATTERIE AG

Address:DIECKSTRASSE 42

City:D-5800 HAGEN 1

Country:GE

Info Phone Num:02331/372334

Emergency Phone Num:02331/372406

Prepa

er's Name:DR. J.WOIDT-Q.A. MGR.

CAGE:D8034

=== Contractor Identification ===

Company Name:VARTA BATTERIE AG

Address:DIECKSTRASSE 42

Box:City:D-5800 HAGEN 1

Country:GE

Phone:02331/372334

CAGE:D8034

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Composition/Information on Ingredients
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Ingred Name:NICKEL HYDROXIDE (SARA III)

CAS:12054-48-7

RTECS #:QR7040000

Fraction by Wt: 11-13.5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG(NI)/M3

ACGIH TLV:0.1 MG(NI)/M3; 9394

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred N

ame:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 10-27%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9394

Ingred Name:CADMIUM (AS CD);(SARA III)
CAS:7440-43-9
RTECS #:EU9800000
Fraction by Wt: 20-21%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.2 MG/M3 DUST; Z-2
ACGIH TLV:0.01 MG/M3 DUST;9394
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:POTASSIUM HYDROXIDE,50%(AQ) (SARA III);DENSITY AT 20C(68F)
IS 1.3 KG/L
CAS:1310-58-3
RTECS #:TT210000
0
Fraction by Wt: 10%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C, 2 MG/M3
ACGIH TLV:C 2 MG/M3; 9394
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD 50 ORAL RAT IS UNKNOWN FOR MIXTURE.
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:NO EXPOSURE EXPECTED UNDER NORMAL
CONDITIONS OF USE. IF BATTERY RUPTURES, CONTACT
MAY CAUSE BURNS.
Explanation of Carcinogenicity:NICKEL AND CADMIUM ARE LISTED UNDER IARC
AND NTP. NO EXPOSURE EXPECTED UNDER NORMAL CONDITIONS OF USE.
Effects of Overexposure:NO EXPOSURE EXPECTED UNDER NORMAL CONDITIONS OF
USE. IF CONTACTED WHEN BATTERY RUPTURE, IT MAY CAUSE BURNS TO EYES
AND SKIN.

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

First Aid:IF LEAKAGE FROM BATTERY CONTACT EYES: FLUSH IF PLENTY OF
WATER FOR AT LEAST 15 MINUTES, SEE DOCTOR IMM

EDIATELY. SKIN: FLUSH
WITH PLENTY OF WATER. WASH WITH SOAP AND WATER. IF IRRITATION
PERSISTS, GET MEDICAL ATTENTION.

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

Flash Point:NONE

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE
FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED
CONTAINERS WITH WATER SPRAY.

Unusual Fire/Expl

osion Hazard:CONTACT WITH STRONG OXIDIZERS MAY CAUSE
FIRE OR EXPLOSION. MAY BURST WHEN SUBJECT TO EXTREME HEAT. CADMIUM
FUMES OR VAPORS ARE TOXIC AND CAN CAUSE DEATH.

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

Spill Release Procedures:IF BATTERY RUPTURES, WEAR PROTECTIVE GLOVES
AND SAFETY GLASSES. COLLECT ALL RELEASED MATERIAL IN A PLASTIC BAG
FOR WASTE DISPOSAL. WASH AREA WITH PLENTY OF WATER.

Neutralizing Agent:DILUTE BORIC ACID.

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== Handling and Storage =====

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. PROTECT FROM
PHYSICAL DAMAGE, HEAT, FLAMES AND INCOMPATIBLE MATERIALS.

Other Precautions:DO NOT SHORT CIRCUIT BATTERIES. THEY MAY CAUSE BURNS
WHEN IN CONTACT WITH SKIN OR EYES. USE PROPER BATTERY CHARGER.
OBSERVE CORRECT POLARITY.

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

Protective Gloves:RUBBER. WHEN HANDLING RUPTURED BATTERIES

Eye Protection:GOGGL

ES WHEN HANDLING RUPTURED BATTERIES

Other Protective Equipment:PROTECTIVE CLOTHING,AS NEEDED.PROVIDE A
LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:NORMAL PRACTICES AND PROCEDURES.

Supplemental Safety and Health

NONE.

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

HCC:N1

Solubility in Water:52% (KOH)

Appearance and Odor:CAUSTIC ELECTROLYTE IN BATTERY CASE.

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

Stability Indicator/Ma

materials to Avoid: YES

STRONG OXIDIZING AGENTS, NITRATES, NITRIC ACID. BATTERY MAY SHORT CIRCUIT IN WATER.

Stability Condition to Avoid: HIGH HEAT, OPEN FLAMES.

Hazardous Decomposition Products: METAL OXIDE FUMES MAY BE EVOLVED AT TEMPERATURES ABOVE MELTING POINT.

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

Waste Disposal Methods: CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. DO NOT INCINERATE OR DISPOSE OF WITH HOUSEHOLD TRASH.

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