

Version 1.1 SDS Number: 400000000442 Revision Date: 08/02/2020

SECTION 1. IDENTIFICATION

Product name : PURELL® Advanced Hand Sanitizer Foam

Manufacturer or supplier's details

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500

Akron, Ohio 44311

Telephone : 1 (330) 255-6000

Emergency telephone : CHEMTREC 1-800-424-9300

number CHEMTREC +1-703-527-3887: Outside USA & CANADA

Recommended use of the chemical and restrictions on use

Recommended use : Hand Sanitizer

Restrictions on use : This is a personal care or cosmetic product that is safe for

consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific

provided on the package or instruction sheet.

intended-use guidance, please refer to the information

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Eye irritation : Category 2A

GHS label elements

Hazard pictograms





Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. -

No smoking.

P233 Keep container tightly closed.



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> P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsina.

P337 + P313 If eye irritation persists: Get medical advice/

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (%)
Ethyl Alcohol	64-17-5	>= 60 - < 70
Isopropyl Alcohol	67-63-0	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical

advice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Wash with water and soap as a precaution.

Get medical attention if irritation develops and persists.

: In case of contact, immediately flush eyes with plenty of water In case of eve contact

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Seek medical advice.

If swallowed : Do NOT induce vomiting.

> Rinse mouth with water. Obtain medical attention.

Most important symptoms and effects, both acute and

: Causes serious eye irritation.

delayed

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing



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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not use a solid water stream as it may scatter and spread

fire.

Cool closed containers exposed to fire with water spray.

Flash back possible over considerable distance.

May form explosive mixtures in air.

Exposure to decomposition products may be a hazard to

health.

Carbon oxides Silicon oxides

Hazardous combustion

products

: Carbon oxides Silicon oxides

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Use water spray to cool unopened containers.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Material can create slippery conditions.

Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Non-sparking tools should be used. Soak up with inert absorbent material.

Suppress (knock down) gases/vapours/mists with a water

sprav jet.

Keep in suitable, closed containers for disposal.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.

SECTION 7. HANDLING AND STORAGE



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Advice on safe handling : For personal protection see section 8.

Keep away from heat.

Use with local exhaust ventilation.

Avoid contact with eyes.

Conditions for safe storage : Take measures to prevent the build up of electrostatic charge.

Keep in properly labelled containers.

Keep container tightly closed in a dry and well-ventilated

place.

Store in accordance with the particular national regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethyl Alcohol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Isopropyl Alcohol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
Isopropyl Alcohol	67-63-0	Acetone	Urine	End of shift at end of workwee k	40 mg/l	ACGIH BEI

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Remarks : No special protective equipment required.

Eye protection : Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : No special measures necessary provided product is used

correctly.

Protective measures : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Ensure that eye flushing systems and safety showers are

located close to the working place.



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Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Avoid contact with eyes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : clear, colourless, yellow

Odour : like fruit

Odour Threshold : No data available

pH : 6 - 9, (20 °C)

Melting point/freezing point : No data available

Initial boiling point and boiling

range

: 74.00 °C

Flash point : 27.00 °C

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 0.8730 g/cm3

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : No data available

Thermal decomposition : The substance or mixture is not classified self-reactive.

Viscosity

Viscosity, kinematic : 10 - 20 mm2/s (20 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard. Chemical stability : Stable under normal conditions.



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Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks. Incompatible materials : Strong oxidizing agents

Flammable solids

Water-reactive substances

Hazardous decomposition

products

: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Eye contact Skin contact

Acute toxicity

Not classified based on available information.

Components:

Ethyl Alcohol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

: LC50 (Rat): 124.7 mg/l Acute inhalation toxicity

> Exposure time: 4 h Test atmosphere: vapour

Isopropyl Alcohol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l

> Exposure time: 4 h Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

Ethyl Alcohol: Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Isopropyl Alcohol:

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Ethyl Alcohol: Species: Rabbit



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Result: Irritation to eyes, reversing within 21 days

Method: OECD Test Guideline 405

Isopropyl Alcohol: Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components: Ethyl Alcohol:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse Result: negative

Isopropyl Alcohol: Test Type: Buehler Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components: Ethyl Alcohol:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Test species: Mouse

Application Route: Ingestion

Result: negative

Isopropyl Alcohol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay)
Test species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Isopropyl Alcohol:

Species: Rat



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Application Route: inhalation (vapour)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

Result: negative

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

Ethyl Alcohol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion Method: OECD Test Guideline 416

Result: negative

Isopropyl Alcohol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on foetal : Test Type: Embryo-foetal development

development Species: Rat

Application Route: Ingestion

Result: negative

STOT - single exposure

Not classified based on available information.

Components:

Isopropyl Alcohol:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Ethyl Alcohol:

Species: Rat

NOAEL: 2,400 mg/kg



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Application Route: Ingestion

Exposure time: 2 y

Isopropyl Alcohol: Species: Rat

NOAEL: 5000 ppm

Application Route: inhalation (vapour)

Exposure time: 104 w

Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ethyl Alcohol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 9.6 mg/l

Exposure time: 9 d

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 32.1 mg/l

Exposure time: 0.25 h

Isopropyl Alcohol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h

Toxicity to bacteria : EC50 (Pseudomonas putida): > 1,050 mg/l

Exposure time: 16 h

Persistence and degradability

Components:

Ethyl Alcohol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 84 % Exposure time: 20 d

Isopropyl Alcohol:



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Biodegradability : Result: rapidly degradable

Bioaccumulative potential

Components: Ethyl Alcohol:

Partition coefficient: n-

: log Pow: -0.35

octanol/water

Isopropyl Alcohol:

Partition coefficient: n-

: log Pow: 0.05

octanol/water

Mobility in soil
No data available

Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

UN/ID No. : UN 1987

Proper shipping name : Alcohols, n.o.s.

(Ethanol, Propan-2-ol)

Class : 3
Packing group : III
Packing instruction (cargo : 366

aircraft)

Packing instruction : 355

(passenger aircraft)

IMDG-Code

UN number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.

(Ethanol, Propan-2-ol)

Class : 3



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Packing group : III Labels : 3

EmS Code : F-E, S-D Marine pollutant : no

National Regulations

49 CFR

UN/ID/NA number : UN 1987
Proper shipping name : Alcohols, n.o.s.

Class : 3
Packing group : III
ERG Code : 127
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Isopropyl Alcohol 67-63-0 3.4086 %

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Ethyl Alcohol 64-17-5 65.2821 % Isopropyl Alcohol 67-63-0 3.4086 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

California Prop 65 This product does not require a warning label under California

Proposition 65.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

AICS : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory



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KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

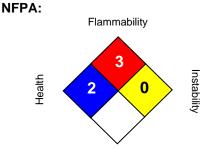
NZIoC : On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information



Special hazard.

HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

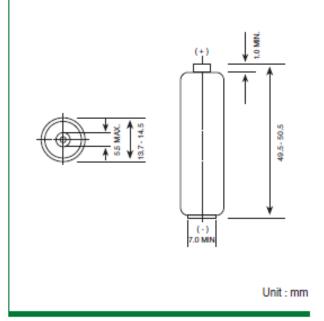
DATA SHEET

NO MERCURY AND CADMIUM ADDED

Description	: Mercury & Cadmium Free Alkaline Manganese Battery, AA Size
Chemical System	: Alkaline Manganese
Nominal Voltage	: 1.5 Volts
Nominal Dimensions	: ø14.5 mm x 50.5 mm
Terminals	: Protruded positive (+) and flat negative (-) contacts
Jacket	: Foil jacket
Applications	: Internet of Things (IoT), sensors, home security products, smart remote control, wireless mouse/ keyboard, toys, smart meters, medical/ smart healthcare, thermometers, dispensers
Average Weight	: 23g

Model No.: GN15A

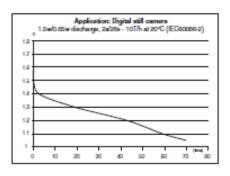
FOR INDUSTRIAL MARKET ONLY

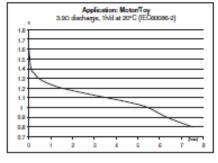


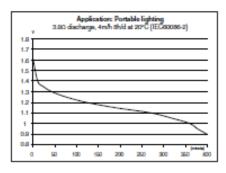
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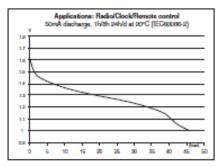
	GP	JIS	IEC	Eveready	Duracell
I	15A	LR6	LR6	E91	MN1500

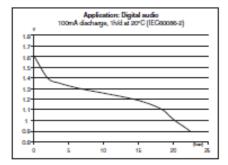
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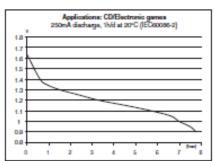


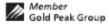












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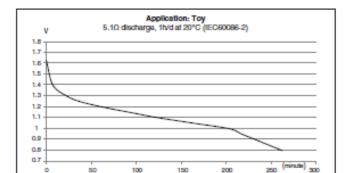
NO MERCURY AND CADMIUM ADDED

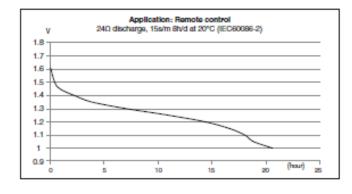
Description	: Mercury & Cadmium Free Alkaline
	Manganese Battery, AAA Size
Chemical System	: Alkaline Manganese
Nominal Voltage	: 1.5 Volts
Nominal Dimensions	: ø10.5 mm x 44.5 mm
Terminals	: Protruded positive (+) and flat
	negative (-) contacts
Jacket	: Foil jacket
Applications	: Internet of Things (IoT), sensors, home security products, smart remote control, wireless mouse/ keyboard, toys, smart meters, medical/ smart healthcare, thermometers, dispensers
Average Weight	: 11.5g

Model No.: GN24A FOR INDUSTRIAL MARKET ONLY (+) (+) (-) Unit: mm

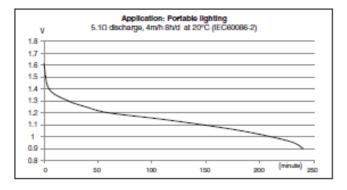
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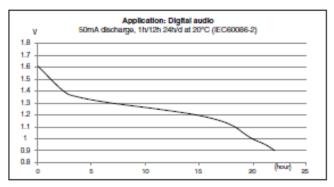
GP	JIS	IEC	Eveready	Duracell	Varta
24A	LR03	LR03	E92	MN2400	4003





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Batteries

DATA SHEET

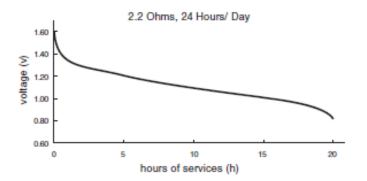
NO MERCURY ADDED)
Description	: Mercury & Cadmium Free Alkaline Manganese Battery, D Size
Chemical System	: Alkaline Manganese
Nominal Voltage	: 1.5 Volts
Nominal Dimensions	: ø34 mm x 61 mm
Terminals	: Protruded positive (+) and flat negative (-) contacts
Jacket	: Foil jacket
Applications	: All electronic devices, e.g. transistor radios, cassette recorders, toys, alarm clocks, portable fans, portable hand-tools.
Shelf Life	: 10 years at 20°C in a well ventilated area
Average Weight	: 135g

Cross References:

GP	JIS	IEC	Energizer	Duracell	Varta
13A	LR20	LR20	E95	MN1300	4020

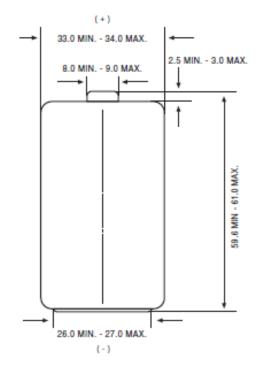
Typical Service Life:

Discharge	_	End Point	Service
Resistanc		Voltage	Life
2.2 Ohms	24 Hrs/ Day	0.9V	19 Hrs



At 20°C±2°C within 30 days of manufacture

Model No.: GP13A



Unit: mm

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DATA SHEET

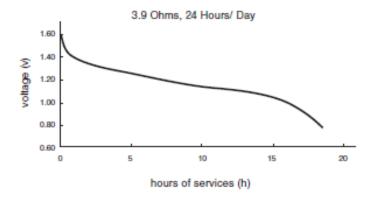
NO MERCURY ADDED)
Description	: Mercury & Cadmium Free Alkaline Manganese Battery, C Size
Chemical System	: Alkaline Manganese
Nominal Voltage	: 1.5 Volts
Nominal Dimensions	: ø26 mm x 50 mm
Terminals	: Protruded positive (+) and flat negative (-) contacts
Jacket	: Foil jacket
Applications	: All electronic devices, e.g. transistor radios, cassette recorders, toys, alarm clocks, lighting & torches, portable fans.
Shelf Life	: 10 years at 20°C in a well ventilated area
Average Weight	: 60g

Cross References:

GP	JIS	IEC	Energizer	Duracell	Varta
14A	LR14	LR14	E39	MN1400	4014

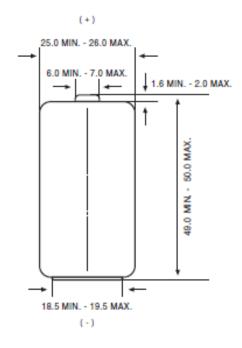
Typical Service Life:

Discharge	Discharge	End Point	Service
Resistance	Condition	Voltage	Life
3.9 Ohms	24 Hrs/ Day	0.9V	18 Hrs



At 20°C±2°C within 30 days of manufacture

Model No.: GP14A



Unit : mm

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DATA SHEET

NO MERCURY AND CADMIUM ADDED Description Alkaline Manganese 9V Battery Chemical System Alkaline Manganese Dioxide Nominal Voltage 9.0 Volts Operating Temp. -18°C ~ 50°C, 65±20%RH Storage Temp. -20°C ~ 30°C, 65±20%RH

Operating Temp. -18°C ~ 50°C, 65±20%RH Storage Temp. -20°C ~ 30°C, 65±20%RH Nominal Dimensions Refer to drawing Terminal Miniature snap fasteners Jacket Printed metal jacket Application All electronic devices Nominal Weight 47g

Cross References:

GP	JIS	IEC	Eveready	Duracell
1604A	6LR61	6LR61	522	MN1604

Electrical Characteristics

Test		Specification (Volt), min		
Items		Initial	1 year	
ocv		9.2V	9.0V	
CCV	180Ω ± 0.5%, 0.3s	8.8V	8.5V	

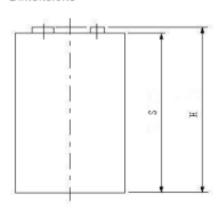
Discharge Capacity

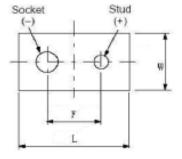
Test Items	Test Conditions 20±2°C, 55±20%RH (EPV = End Point Voltage)	Specification (Hours), MAD	
		Initial	1 year
	620Ω 2H/D (EV=5.4V)	49.0	47.0
Service	270Ω 1H/D (EPV=5.4V)	20.0	19.0
life at 20±2°C	Background 10KΩ Pulse: 620Ω 24H, 1s/H (EPV=7.5V)	19.5	18.0
	35mA 24H/D (EPV=5.4V)	14.0	13.0

[&]quot; Storage performance are estimated.

Model No.: GN1604A-2 FOR INDUSTRIAL MARKET ONLY

Dimensions





/	min	max
Н	46.5	48.5
S	43.7	44.7
F	12.45	12.95
L	25.3	26.1
W	16.3	17.1

Unit: mm

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