

Version 1.0	SDS Number: 400000006041	Revision Date: 05/12/2022
SECTION 1. IDENTIFICATION		
Productname	: PURELL® Advanced Hand Sa	nitizer Fragrance Free Foam
Manufacturer or supplier's	details	
Company name of supplier Address	 : GOJO Industries, Inc. : One GOJO Plaza, Suite 500 Akron, Ohio 44311 	
Telephone	: 1 (330) 255-6000	
Emergency telephone number	: CHEMTREC 1-800-424-9300 CHEMTREC +1-703-527-3887	: Outside USA & CANADA
Recommended use of the o	chemical and restrictions on use	
Recommended use Restrictions on use	 Hand Sanitizer This is a personal care or cosm consumers and other users un foreseeable use. Cosmetics ar specifically defined by regulated exempt from the requirement of While this material is not consi contains valuable information of proper use of the product for in as well as unusual and uninter spills. This SDS should be reta employees and other users of intended-use guidance, please provided on the package or ins 	der normal and reasonably of consumer products, ons around the world, are of an SDS for the consumer. dered hazardous, this SDS critical to the safe handling and industrial workplace conditions added exposures such as large ined and available for this product. For specific refer to the information

GHS Classification Flammable liquids	: Category 3
Eyeirritation	: 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.



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.
lf 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 eye contact	 In case of contact, immediately flush eyes with plenty of water 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 delayed	: Causes serious eye irritation.
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	:	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	fire. Cool clo Flash ba May for Exposu health. Carbon	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
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	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	

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 spray 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 Keep away from heat. Use with local exhaust ventilation		
Conditions for safe storage	 Avoid contact with eyes. Take measures to prevent the build up of electrostatic charge. Keep in properly labelled containers. Keep containers tightly closed in a cool, 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	
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 protective equipment required.
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.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.



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Avoid contact with eyes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colour Odour pH	:	liquid clear, colourless, yellow alcohol-like 6 - 9
Melting point/freezing point Initial boiling point and boiling range		No data available 73 °C
Flash point	:	26.00 °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	:	0.8738 g/cm3
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n- octanol/water	:	Notapplicable
Auto-ignition temperature	:	not determined
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.
Molecular weight	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous	: Vapours may form explosive mixture with air.
reactions	



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Conditions to avoid Incompatible materials	 Heat, flames and sparks. Strong oxidizing agents Flammable solids 	
Hazardous decomposition products	Water-reactive substances : No hazardous decomposition p	products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route Inhalation Skin contact Eye contact	s of exposure
Acute toxicity Not classified based on avail	able information.
Product:	
Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method : Calculation method
Components:	
Ethyl Alcohol: Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): 124.7 mg/l 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.



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Components:

Ethyl Alcohol: Species: Rabbit 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.



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Components: Isopropyl Alcohol: Species: Rat Application Route: inhala Exposure time: 104 week Method: OECD Test Guid Result: negative	(S	
IARC	No component of this product pro equal to 0.1% is identified as pro human carcinogen by IARC.	
OSHA	No component of this product pre equal to 0.1% is identified as a ca carcinogen by OSHA.	
NTP	No component of this product pre equal to 0.1% is identified as a kr by NTP.	
Reproductive toxicity Not classified based on a	available information.	
	available information. : Test Type: Two-generation rep Species: Mouse Application Route: Ingestion Method: OECD Test Guideline Result: negative	
Not classified based on a <u>Components:</u> Ethyl Alcohol:	: Test Type: Two-generation rep Species: Mouse Application Route: Ingestion Method: OECD Test Guideline	e 416
Not classified based on a <u>Components:</u> Ethyl Alcohol: Effects on fertility Isopropyl Alcohol:	 Test Type: Two-generation rep Species: Mouse Application Route: Ingestion Method: OECD Test Guideline Result: negative Test Type: Two-generation rep Species: Rat Application Route: Ingestion 	e 416 production toxicity study

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:



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Ethyl Alcohol:

Species: Rat NOAEL: 2,400 mg/kg 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

<u>Components:</u> 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 algæ)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
aquatic invertebrates	:	NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d
(Chronic toxicity) 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 degradabilit	ty	
Components:		
Ethyl Alcohol: Biodegradability	:	Result: Readily biodegradable.



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	Exposure time: 20 d	
Isopropyl Alcohol: Biodegradability	: Result: rapidly degradable	
Bioaccumulative potential		
Components:		
Ethyl Alcohol: Partition coefficient: n- octanol/water Isopropyl Alcohol: Partition coefficient: n- octanol/water	: log Pow: -0.35 : log Pow: 0.05	
Mobility in soil No data available		
Other adverse effects No data available		
Product:		
Regulation	40 CFR Protection of Environr Stratospheric Ozone - CAA Se	
Remarks	This product neither contains, Class I or Class II ODS as def Section 602 (40 CFR 82, Subp	ined by the U.S. Clean Air Act

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues Contaminated packaging	 Dispose of in accordance with local regulations. 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.
Class Packing group	(Ethanol, Propan-2-ol) : 3 : III
Packing instruction (cargo aircraft)	: 366
Packing instruction (passenger aircraft)	: 355
IMDG-Code UN number	: UN 1987



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Proper shipping name	: ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)	
Class Packing group Labels EmS Code Marine pollutant National Regulations	: 3 : III : 3 : F-E, S-D : no	
49 CFR UN/ID/NA number Proper shipping name Class Packing group ERG Code Marine pollutant	: UN 1987 : Alcohols, n.o.s. : 3 : III : 127 : 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 materi requirements of SARA Title		reporting
SARA 313	:	The following components established by SARA Title		ng levels
		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	y VOC exemptior	ns listed under the U.S. Clean Air Act Sec

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

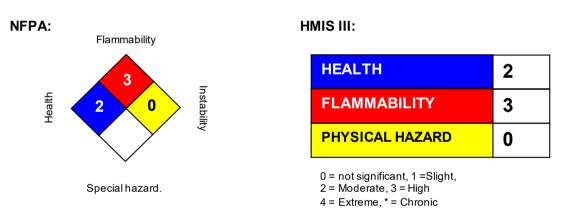


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ISHL	: On the inventory, or in complian	ce with the inventory
KECI	: On the inventory, or in complian	ce with the inventory
PICCS	: On the inventory, or in complian	ce with the inventory
ENCS	: On the inventory, or in complian	ce with the inventory
IECSC	: On the inventory, or in complian	ce with the inventory
NZIoC	: On the inventory, or in complian	ce 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

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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.

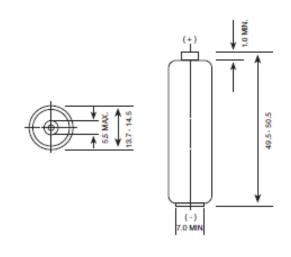


NO MERCURY AND CADMIUM ADDED

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

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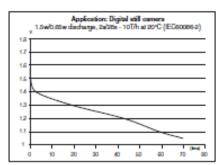


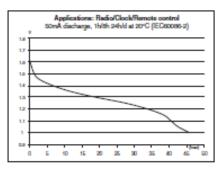
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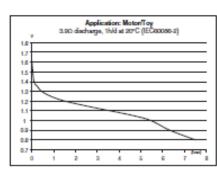
Unit : mm

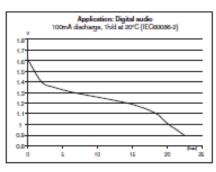
Cross References:

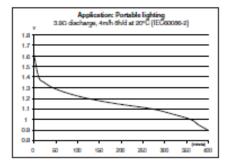
GP	JIS	IEC	Eveready	Duracell
15A	LR6	LR6	E91	MN1500

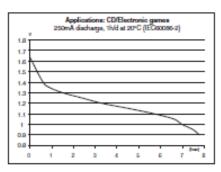






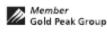






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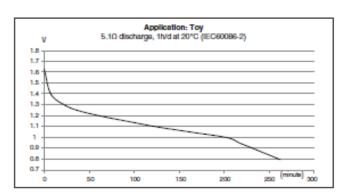
CP Batteries

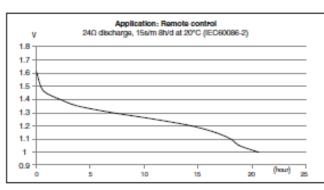
NO MERCURY AND CADMIUM ADDED

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	

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





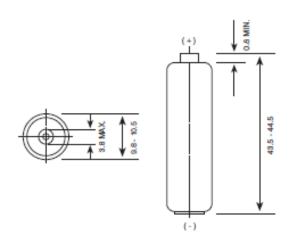
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DATA SHEET

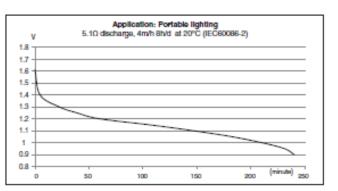
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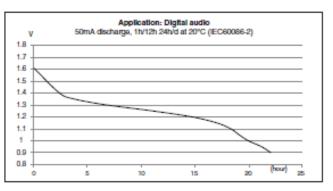
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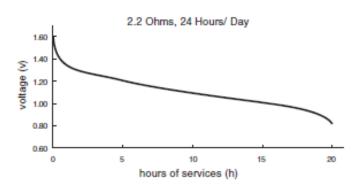
NO MERCURY ADDED)
Description	: Mercury & Cadmium Free Alkaline
	Manganese Battery, D Size
Chemical System	: Alkaline Manganese
Nominal Voltage	: 1.5 Volts
Nominal Dimensions	: ø34 mm x 61 mm
Terminals	: Protruded positive (+) and flat
	negative (-) contacts
Jacket	: Foil jacket
Applications	: All electronic 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

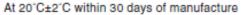
Cross References:

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

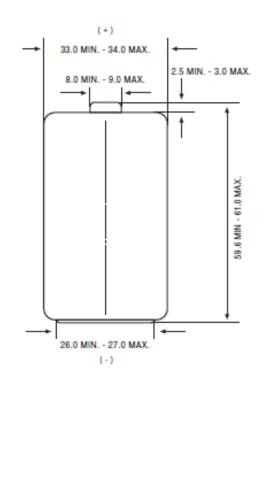
Typical Service Life:

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







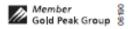


Unit : mm

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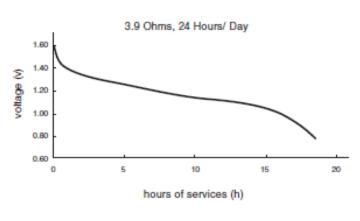
NO MERCURY ADDED)	
Description	: Mercury & Cadmium Free Alkaline	
	Manganese Battery, C Size	
Chemical System	: Alkaline Manganese	
Nominal Voltage	: 1.5 Volts	
Nominal Dimensions	: ø26 mm x 50 mm	
Terminals	: Protruded positive (+) and flat	
	negative (-) contacts	
Jacket	: Foil jacket	
Applications	: 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

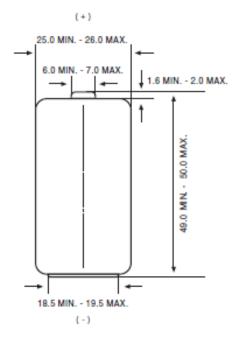
Typical Service Life:

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









Unit : mm

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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	
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 Items	Test Conditions 20±2°C	Specification (Volt), min	
		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
Service life at 20±2°C	620Ω 2H/D (EV=5.4V)	49.0	47.0
	270Ω 1H/D (EPV=5.4V)	20.0	19.0
	Background 10KΩ Pulse: 620Ω 24H, 1s/H (EPV=7.5V)	19.5	18.0
	35mA 24H/D (EPV=5.4V)	14.0	13.0

" Storage performance are estimated.

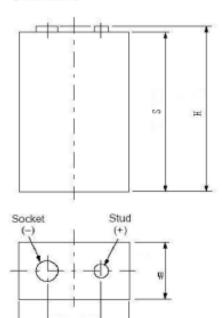
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Model No.: GN1604A-2

FOR INDUSTRIAL MARKET ONLY

Dimensions



1	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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