

Safety Data Sheet according to 93/112/EEC

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Date of issue: 23/02/2004



1. Identification of the substance/preparation and of the company/undertaking:

Productname: Battery Fluid 1. 32, Sulfuric Acid 41%

Supplier : GS YUASA POWER SUPPLY LTD.
Nishinosho, Kisshoin, Minami-ku, Kyoto 601-8520 Japan

Phonenumber(emergency):81-75-316-3036

2. Composition/information on ingredients:

Chemical characteristics Sulfuric Acid H_2SO_4 41%

3. Hazard Identification:

CAS-No.	Description	%	Feature	R-Rates
7664-93-9	Sulfuric Acid	41	Corrosive	35

4. First aid measures:

General hints:

All clothes being showing impurities should be taken off immediately

After skin contact:

Clean skin with water or soap and rinse several times

After eye-contact:

Exes to be rinsed for several minutes under flushing water.

Consultation of medical doctor

After swallowing:

Drink much water and exposure to fresh air

avoid Vomitting

Consult doctor immediately

5. Fire fighting measures:

Suitable exthinguishing agents

Water

no limitation in case of ambient fire

Special protective equipment: no special measures are required

6. Accidental release measures:

person related caution measures: not necessary, except personal protective equipment(pls refer item 8)

Environmental Protection measures

Avoid penetration into drainage system, cellars, etc.

to dilute with much water

Procedure for cleaning/absorption: application of neutralization agent(lime or soda)

Use much water for diluting

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7. Handling and storage:

Handling:

Hints for a safe treatment: container should be kept tightly closed. Container should be opened and handled with care.

Hints for protection of fire and explosion:

no special measures to be taken

Storing

Requirements for warehouse and container: storing of substance only in original barrels or containers recommended by producer

Hints when storing with other substances: keep away from alkaline and metals

Further information as to storing condition: none

Storing category: as per (VCI) 8

VbF—category: not applicable

8. Exposure controls/personal protection:

Additional hints for design of technical equipments: no further statements (pls refer item 7)

9. Physical and chemical properties:

Form: liquid

Colour: transparent

Odour: odourless

value/scope unit method

change of condition

melting point/melting scope

−65°C

boiling point/boiling scope

124°C

Flash point

not applicable

Self-inflammability

The substance is not self-inflammable

Explosion Danger

The substance is not explodable

Density: at 20°C 1.320 g/cm³

Solubility in / mixable with

water: completely mixable

pH—value at 20°C >1

Viscosity:

dynamic: at 20°C Appx. 3.1 mPas

Solvent content

organic solvent 0,0%

water: 59,0%

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10. Stability and reactivity:

Condition to be avoided:

no decomposition as long as properly applied

Substances to be avoided:

Reacts vigorously with caustic solutions. Hydrogen formation with base metals

Dangerous decomposition products: Sulfur-trioxide, not applicable

11. Toxicological information:

Acute Toxicity:

Classification relevant LD/LC50-values:

Component	kind	value	species
Sulfuric acid	oral	2. 140mg/kg	rat

Primary Irritation Effect

-on the skin: Strong irritation on skin and muscous membrane

-in the eyes: strong burns

-Sensibilization: no sensibilizing effect is known

12. Ecological information:

Further ecological remarks:

The product does not cause any biological oxygen reduction

After neutralization only the relatively small damage by the formed salts are existing.

Damage effect on fish and seaweed (50mg/l)

If not neutralized, it has to be paid attention to the pH-value.

The toxic effect on fishes and bacteria starts at a pH-value below 6 resp, more than 9 designation of product: Battery Fluid 1.32, Sulfuric Acid 41%

13. Disposal considerations:

Product:

Recommendation:

May not be decontaminated with household garbage. May not penetrate into the drainage

Garbage code number: 5201

Packages not being cleaned:

Recommendation: Decontamination required by official instructions

Recommended cleaning agents:

Water, if necessary adding cleaning stuffs

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14. Transport information:

UN-no. :2796
ADR/RID classification:8 corrosive substances
Transportname:Battery Fluid Acid
Label:corrosive

IMDG classification :8
page :8230
proper shipping name:Battery Fluid Acid
label :corrosive
packing group :II
MFAG :700
EMS :806

IATA classification :8
proper shipping name :Battery Fluid Acid
packing group :II
packing instruction :809

15. Regulatory information:

Labelling according to Directive . . . / . . . /EEC.

UN-no. : 2796
Symbol : Danger determining components for labelling: sulfuric Acid
R-phrases:35 causes sever burns
S-phrases:1/2 Keep out of the reach of children
26 In case of eye-contact, flush with water and consult doctor
30 Never add water
36/37/39 Wear suitable protective clothing, -gloves and glasses/face-
protection during work
45 In case of accident or sickness please consult doctor and
show packing orcaution label.
27 Spoiled, saturated clothing should be taken off immediatery
28 In case of contact with skin, rinse with much water and soap.

16. Other information

The statements are based on today's level of knowledge, however, do not represent a confirmation of product properties and also do not constitute a contractual legal relationship.