# GF Healthcare

# SAFETY DATA SHEET

## **Singapore**

Confirms to Singapore standard SS 586: part 3: 2008

Section 1. Identification

**GHS** product identifier Kvick™ Self-contained, 1.2 ft<sup>2</sup>, 10KD

Catalogue Number UFESC0010010ST

Other means of identification Not available. Product type Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses Use in laboratories

Uses advised against Reason

Not applicable.

Supplier

GE Healthcare UK Ltd GE Healthcare Pte Ltd. 1 Maritime Square #13-01 Amersham Place Little Chalfont HarbourFront Center Buckinghamshire HP7 9NA Singapore 099253

England

Emergency telephone number (with hours of operation)

+65 6773 7303

(hours of operation: 8.30 pm - 5.30 pm)

Section 2. Hazards identification

Classification of the substance or

mixture

SKIN CORROSION/IRRITATION - Category 2

**GHS label elements** 

Hazard pictograms



Signal word Warning

Causes skin irritation. Hazard statements

**Precautionary statements** 

Prevention Wear protective gloves. Wash hands thoroughly after handling.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated Response

clothing before reuse. If skin irritation occurs: Get medical attention.

Storage Not applicable. Disposal Not applicable. Other hazards which do not result None known.

in classification



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## Section 3. Composition/information on ingredients

Substance/mixture Mixture

Other means of identification Not available.

CAS number/other identifiers

CAS number Not applicable.
EC number Mixture.

Product code UFESC0010010ST Chemical formula Not applicable.

Ingredient name%CAS numbersodium hydroxide; caustic soda0.5 - 11310-73-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### Description of necessary first aid measures

**Eye contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for

and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation**Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if

breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as

a collar, tie, belt or waistband.

**Skin contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to

rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

**Ingestion** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If

unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

## Potential acute health effects

**Eye contact** Causes serious eye irritation.

**Inhalation** No known significant effects or critical hazards.

**Skin contact** Causes skin irritation.

**Ingestion** Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

**Eye contact** Adverse symptoms may include the following:

pain or irritation watering

redness

No specific data.

**Skin contact** Adverse symptoms may include the following:

irritation

redness

**Ingestion** No specific data

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

**Specific treatments** No specific treatment.

**Protection of first-aiders**No action shall be taken involving any personal risk or without suitable training. It may be dangerous to

the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)



Inhalation

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## Section 5. Fire-fighting measures

#### **Extinguishing media**

**Suitable extinguishing media** Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

Specific hazards arising from the

chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition

products

Decomposition products may include the following materials:

carbon dioxide

Special protective actions for fire-

fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or without suitable training.

Special protective equipment for

fire-fighters

 $\label{thm:contained} \textbf{Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus}$ 

(SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on

suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

#### Methods and materials for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

disposal container. Dispose of via a licensed waste disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry

into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency

contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with

eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers

retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational

hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 0 to 50°C (32 to 122°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to

avoid environmental contamination.

## Section 8. Exposure controls/personal protection

## **Control parameters**

### Occupational exposure limits

Ingredient name Exposure limits

sodium hydroxide; caustic soda

Factories Order (PEL) (Singapore, 2/2006).

PEL (short term): 2 mg/m³ 15 minutes.

**Appropriate engineering controls** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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**Environmental exposure controls** 

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable

levels

**Individual protection measures** 

**Hygiene measures** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking

and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that

eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** Safety eyewear complying with an approved standard should be used when a risk assessment indicates

this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection:

chemical splash goggles.

Skin protection

**Hand protection** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times

when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

**Body protection** Personal protective equipment for the body should be selected based on the task being performed and

the risks involved and should be approved by a specialist before handling this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected based on the task

being performed and the risks involved and should be approved by a specialist before handling this

product.

**Respiratory protection**Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is pecessary. Respirator selection must be based on known or anticipated

assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

## **Appearance**

Physical state Liquid. Color Colorless. Odor Odorless. Odor threshold Not available. pН Not available Not available. Melting point Not available. **Boiling point** Flash point Not applicable. **Burning time** Not applicable. Not applicable. **Burning rate Evaporation rate** Not available Flammability (solid, gas) Not available. Lower and upper explosive Not available. (flammable) limits

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

**Solubility** Easily soluble in the following materials: cold water and hot water.

Solubility in water Not available.

Partition coefficient: n-octanol/ Not available.

water

 Auto-ignition temperature
 Not available.

 Decomposition temperature
 Not available.

 SADT
 Not available.

Viscosity Not available.



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## Section 10. Stability and reactivity

**Reactivity** No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SADT Not available.

## Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Not available.

### Irritation/Corrosion

Not available.

### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available

## Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Not available.

Information on the likely routes of

Routes of entry anticipated: Oral, Dermal, Inhalation.

exposure

## Potential acute health effects

**Eye contact** Causes serious eye irritation.

**Inhalation** No known significant effects or critical hazards.

**Skin contact** Causes skin irritation.

Ingestion Irritating to mouth, throat and stomach.

# Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** Adverse symptoms may include the following:

pain or irritation watering

redness

**Inhalation** No specific data.

**Skin contact** Adverse symptoms may include the following:

irritation

redness

**Ingestion** No specific data.

## <u>Delayed and immediate effects and also chronic effects from short and long term exposure</u>



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Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects

Not available.

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient nameResultSpeciesExposuresodium hydroxide; caustic sodaAcute EC50 40.38 mg/l Fresh waterCrustaceans - Ceriodaphnia dubia - Neonate48 hoursNeonateNeonateFish - Gambusia affinis - Adult96 hours

#### Persistence/degradability

Not available.

#### **Bioaccumulative potential**

Not available.

#### Mobility in soil

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-



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Packing group

**Environmental** hazards

No.

Nο

Nο

Additional information

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

## Section 15. Regulatory information

### Singapore - hazardous chemicals under government control

None

## Section 16. Other information

#### History

Date of printing 24 February 2015 24 February 2015 Date of issue/Date of revision Date of previous issue No previous validation.

Version

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Key to abbreviations

Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified

by the Protocol of 1978. ("Marpol" = marine pollution)

RÍD = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

### References

Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.  $Final\ determination\ of\ suitability\ of\ any\ material\ is\ the\ sole\ responsibility\ of\ the\ user.\ All\ materials\ may\ present\ unknown\ hazards\ and\ should$ be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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