# **GE** Healthcare

# **Material Safety Data Sheet**

Canada English

Section 1. Chemical product and company identification

Product name KvickFlow<sup>TM</sup> 25 ft<sup>2</sup>, 30 kD, PES

Catalogue Number UFEFL0030250ST

Material uses Industrial applications: Analytical chemistry. Chemical synthesis. Manufacture of chemicals. Research.

Product type Liquid

Validation date 24 February 2015
Print date 24 February 2015
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In case of emergency US ChemTrec (US) 1-800-424-9300

Canada ChemTrec (US) 1-703-527-3887

# 2. Hazards identification

Physical state Liquid.

Color Colorless.

Odor Odorless.

Signal word ₹AUTION!

Hazard statements 
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE

TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

**Precautionary measures** To not breathe vapor or mist. Use only with adequate ventilation. Do not eat, drink or smoke when using

this product. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Wash thoroughly

after handling.

**Routes of entry** Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

**Eyes** Moderately irritating to eyes. **Skin** Moderately irritating to the skin.

InhalationModerately irritating to the respiratory system.IngestionNo known significant effects or critical hazards.

Potential chronic health effects

Chronic effects Contains material that may cause target organ damage, based on animal data.

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.

Target organs Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin,

eyes

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Ingestion** No specific data.

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

irritation redness



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**Eyes** Adverse symptoms may include the following:

irritation watering redness

Medical conditions aggravated by over-exposure

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be

aggravated by over-exposure to this product.

See toxicological information (Section 11)

3. Composition/information on ingredients

Name CAS number % by weight

glycerol 56-81-5 20 - 22 -

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.

Section 4. First aid measures

**Eye contact** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15

minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact

in case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Get medical attention immediately.

**Inhalation** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs,

provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie,

belt or waistband. Get medical attention immediately.

**Ingestion** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical attention immediately.

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.

Section 5. Fire-fighting measures

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

**Extinguishing media** 

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

Not suitable None known.

Special exposure hazards 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

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**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 (see Section 8).

**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 for cleaning up

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.

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.

## Section 7. Handling and storage

Handling

Fut on appropriate personal protective equipment (see Section 8). 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.



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Storage

Store between the following temperatures: 0 to 50°C (32 to 122°F). Store in accordance with loca 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

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/ m³	Other	ppm	mg/ m³	Other	ppm	mg/ m³	Other	Notations
glycerol	AB 4/2009 BC 7/2013	-	10 10	-	-	-	-	-	-	-	[3] [a] [a]
	ON 1/2013 QC 12/2012	-	10 10	- - -	-	-	- - -	-	-	-	[b] [c] [d]

[3]Skin sensitization

Form: [a]Mist [b]Respirable mist [c]Inhalable fraction [d]mist

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring

procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** 

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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.

Personal protection

Respiratory

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk 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.

Hands

Themical-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.

Eyes

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 or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical

Skin

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.

**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.

Other protection Not available. Personal protective equipment

(Pictograms)

Not available.

#### Section 9. Physical and chemical properties

Liquid. Physical state Not applicable. **Burning time** Not applicable **Burning rate** Colorless. Color Odorless Odor 0% (w/w) Volatility Not available SADT

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



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# Section 10. Stability and reactivity

Chemical stabilityThe product is stable.Conditions to avoidNo specific data.Incompatible materialsNo specific data.

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

# Section 11. Toxicological information

Acute toxicity

Product/ingredient name Result Species Dose Exposure

glycerol LD50 Oral Rat 12600 mg/kg -

Conclusion/Summary Not available.

Chronic toxicity

Not available.

Conclusion/Summary Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary Not available.

<u>Sensitizer</u> Not available.

Conclusion/Summary Not available

<u>Carcinogenicity</u> Not available.

Conclusion/Summary Not available.

Classification

Not available.

Mutagenicity

Not available.

Conclusion/Summary Not available.

Teratogenicity
Not available.

Conclusion/Summary Not available.

Reproductive toxicity

Not available.

Conclusion/Summary Not available.

Synergistic products Not available.

# Section 12. Ecological information

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

**Aquatic ecotoxicity** 

Product/ingredient name Result Species Exposure

Not available.

Conclusion/Summary Not available.

Persistence/degradability

Partition coefficient: n-octanol/ Not available.

water

**Bioconcentration factor** Not available.

Other adverse effects No known significant effects or critical hazards.



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#### Section 13. Disposal considerations

Waste disposal

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.

**RCRA** classification

Not available.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### Section 14. Transport information

Regulatory information	•	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated		-	-		-
TDG Classification	Not regulated		-	-		-
Mexico Classification	Not regulated		-	-		-
ADR/RID Class	Not regulated		-	-		-
IMDG Class	Not regulated		-	-		-
IATA-DGR Class	Not regulated		-	-		-

PG\*: Packing group

# Section 15. Regulatory information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS (Canada)

Not controlled under WHMIS (Canada).

Canadian lists

 Canadian NPRI
 None of the components are listed.

 CEPA Toxic substances
 None of the components are listed.

 Canada inventory
 All components are listed or exempted.

#### International regulations

International lists Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted. Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted.

Malaysia Inventory (EHS Register): All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals Not listed

Chemical Weapons Convention List Schedule II Chemicals Not listed

Chemical Weapons Convention List Schedule III Chemicals Not listed



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#### Section 16. Other information

The customer is responsible for determining the PPE code for this material.



Indicates information that has changed from previously issued version.

**History** 

Date of printing24 February 2015Date of previous issue16 April 2009

**Date of issue** 24 February 2015 **Version** 5

#### 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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