GE Healthcare

SAFETY DATA SHEET

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC - United Kingdom (UK)

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

Product name hGR & MMTV in SW 1353 Cells, 1 ml

Catalogue Number 67610289

Component Number 67610289

Liquid Product type

Company/undertaking identification

Supplier GE Healthcare UK Ltd Emergency telephone number

Amersham Place Little Chalfont Buckinghamshire HP7 9NA

England

+44 0870 606 1921

Person who prepared the MSDS: msdslifesciences@ge.com

Swedish Poisons Information Centre:

+46 (0)8 331 231

GE Healthcare UK Ltd 0870 606 1921 United Kingdom (UK)

Amersham Place Little Chalfont Buckinghamshire

HP7 9NA

Hazards identification 2.

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification Not classified

See section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Substance/preparation Preparation

Ingredient name **CAS number** EC number Classification dimethyl sulfoxide 67-68-5 10 200-664-3 Xi: R36/38

See section 16 for the full text of the R-phrases declared above Occupational exposure limits, if available, are listed in section 8.

4. First-aid measures

First-aid measures

Inhalation Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular

or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Obtain medical

attention if symptoms occur.

Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material Ingestion

has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Obtain medical attention if symptoms

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Obtain medical Skin contact

attention if symptoms occur.

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

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

No action shall be taken involving any personal risk or without suitable training. Protection of first-aiders



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Notes to physician

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire

None known Not suitable

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

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.

Accidental release measures 6.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding Personal precautions

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt

material. Put on appropriate personal protective equipment (see section 8).

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

the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, Large spill

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. 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 or

absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a

licensed waste disposal contractor.

7. Handling and storage

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be Handling

prohibited in areas where this material is handled, stored and processed. Workers should wash hands

and face before eating, drinking and smoking.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a Storage

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 unlabelled containers. Use

appropriate containment to avoid environmental contamination.

Packaging materials

Recommended Use original container.

Exposure controls/personal protection 8.

Not available. **Exposure limit values**

Exposure controls

Occupational exposure controls No special ventilation requirements. Good general ventilation should be sufficient to control worker

exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any

recommended or statutory limits.

Respiratory protection 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.

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.

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

this is necessary to avoid exposure to liquid splashes, mists or dusts.

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

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

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.

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



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9. Physical and chemical properties

General information

Appearance

Physical state Liquid.
Colour Amber.

Important health, safety and environmental information

Explosive propertiesNon-explosive in the presence of the following materials or conditions: open flames, sparks and static

discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible

materials, organic materials, metals, acids, alkalis and moisture.

Solubility Not available

10. Stability and reactivity

StabilityThe product is stable.Conditions to avoidNo specific data.Materials to avoidNo specific data.

Hazardous decomposition

products

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

11. Toxicological information

Potential acute health effects

InhalationNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.Eye contactNo known significant effects or critical hazards.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dimethyl sulfoxide	LD50 Dermal	Rat	40 g/kg	-
	LD50 Intraperitoneal	Rat	8200 mg/kg	-
	LD50 Intravenous	Rat	5360 mg/kg	-
	LD50 Oral	Rat	17400 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
	LD50 Subcutaneous	Rat	12 g/kg	-
	LD50 Unreported	Rat	1300 mg/kg	-
	TDLo Intracerebral	Rat	2234.8 mg/kg	-
	TDLo Intraperitoneal	Rat	200 mg/kg	-
	TDLo Intraperitoneal	Rat	1000 mg/kg	-
	TDLo Intraperitoneal	Rat	750 mg/kg	-

Conclusion/Summary Very low toxicity to humans or animals.

Potential chronic health effects

Chronic effectsNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.Reproductive toxicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Over-exposure signs/symptoms

InhalationNo specific data.IngestionNo specific data.SkinNo specific data.EyesNo specific data.

Target organs Contains material which may cause damage to the following organs: skin, eye, lens or cornea.

12. Ecological information

Environmental effects No known significant effects or critical hazards.

Product/ingredient name	Test	Result	Species	Exposure
dimethyl sulfoxide	-	Acute LC50 >400 ml/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 1 a	96 hours
	-	Acute LC50 35 to 37 ml/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 0.7 g	96 hours
	-	Acute LC50 34000000 ug/L Fresh	Fish - Fathead	96 hours

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water **Pimephales**

promelas - 31 days -15.8 mm - 0.062 g

Conclusion/Summary Not available. Not available. Conclusion/Summary

Product/ingredient name Aquatic half-life **Photolysis** Biodegradability dimethyl sulfoxide

3.1%; 14 day(s). Not readily

Bioaccumulative potential

Product/ingredient name **BCF Potential** LogPo dimethyl sulfoxide -2.03

No known significant effects or critical hazards. Other adverse effects

13. Disposal considerations

The generation of waste should be avoided or minimised wherever possible. Empty containers or liners Methods of disposal

may retain some product residues. This material and its container must be disposed of in a safe way Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of

spilt material and runoff and contact with soil, waterways, drains and sewers.

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined Hazardous waste

by EU Directive 91/689/EEC.

14. Transport information

International transport regulations

Not classified.

15. Regulatory information

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

This product is not classified according to EU legislation. Risk phrases

Industrial applications. Product use Not determined. Europe inventory

Other EU regulations

Additional warning phrases Safety data sheet available for professional user on request.

16. Other information

sections 2 and 3 - United Kingdom

Full text of R-phrases referred to in R36/38- Irritating to eyes and skin.

(UK)

Full text of classifications referred

Xi - Irritant

to in sections 2 and 3 - United

Kingdom (UK)

Indicates information that has changed from previously issued version.

History

Date of printing 22 May 2009 Date of previous issue No previous validation

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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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