



mirius™  
A Coventry Group Company

## SAFETY DATA SHEET 40% Hand Sanitizing Gel

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name** 40% Hand Sanitizing Gel

**Product number** 40% Hand Sanitizing Gel

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Hand cleaner.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** MIRIUS™  
A Coventry Group Company  
Woodhams Road, Siskin Drive,  
Coventry, England, CV3 4FX  
www.mirius.com  
info@mirius.com  
+442476639739

**Contact person** For content of safety data sheet: sds@mirius.com, healthcare@mirius.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1865407333 (Strictly for emergencies only: incidents involving damage to human health and/or the environment)

**National emergency telephone number** In case of a medical emergency following exposure to a chemical call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Flam. Liq. 3 - H226

**Health hazards** Eye Irrit. 2 - H319

**Environmental hazards** Not Classified

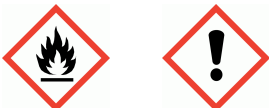
**Human health** Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.

**Environmental** The product is not expected to be hazardous to the environment.

**Physicochemical** The product is flammable. Heating may generate flammable vapours.

#### 2.2. Label elements

**Pictogram**



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<b>Signal word</b>	Warning
<b>Hazard statements</b>	H226 Flammable liquid and vapour. H319 Causes serious eye irritation.
<b>Precautionary statements</b>	P233 Keep container tightly closed. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/ container in accordance with national regulations.
<b>Supplementary precautionary statements</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P337+P313 If eye irritation persists: Get medical advice/ attention.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>ETHANOL</b>		<b>30-60%</b>
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-XXXX
<b>Classification</b>		
Flam. Liq. 2 - H225		
Eye Irrit. 2 - H319		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments** The data shown are in accordance with the latest EC Directives.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General information</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Place unconscious person on their side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

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<b>Skin contact</b>	Rinse immediately with plenty of water. Remove contaminated clothing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Gas or vapour in high concentrations may irritate the respiratory system.
<b>Ingestion</b>	Gastrointestinal symptoms, including upset stomach.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Specific treatments</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with the following media: Alcohol-resistant foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemicals, sand, dolomite etc. Do not use water, if avoidable.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	The product is flammable. Heating may generate flammable vapours. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.
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### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Keep combustible materials away from spillage. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see Section 13. See Section 1 for emergency contact information.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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**Usage precautions** Keep away from heat, sparks and open flame. Do not wear contact lenses. Avoid spilling. Avoid contact with skin and eyes. Eye wash facilities and emergency shower must be available when handling this product. During application and drying, solvent vapours will be emitted.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry and cool place. Store under well-ventilated conditions at a temperature below 25°C.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

**Ingredient comments** WEL = Workplace Exposure Limits

#### ETHANOL (CAS: 64-17-5)

<b>DNEL</b>	<p>Workers - Inhalation; Long term systemic effects: 950 mg/m<sup>3</sup></p> <p>Workers - Inhalation; Short term local effects: 1900 mg/m<sup>3</sup></p> <p>Workers - Dermal; Long term systemic effects: 343 mg/kg</p> <p>General population - Inhalation; Long term systemic effects: 114 mg/m<sup>3</sup></p> <p>General population - Inhalation; Short term local effects: 950 mg/m<sup>3</sup></p> <p>General population - Dermal; Long term systemic effects: 206 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 87 mg/kg/day</p>
<b>PNEC</b>	<p>- Fresh water; 0.96 mg/l</p> <p>- marine water; 0.79 mg/l</p> <p>- Intermittent release; 2.75 mg/l</p> <p>- STP; 580 mg/l</p> <p>- Sediment (Freshwater); 3.6 mg/kg</p> <p>- Sediment (Marinewater); 2.9 mg/kg</p> <p>- Soil; 0.63 mg/kg</p>

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls** Not relevant.

**Eye/face protection** Contact lenses should not be worn when working with this chemical. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Chemical splash goggles.

**Hand protection** Hand protection not required.

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<b>Other skin and body protection</b>	Provide eyewash station and safety shower.
<b>Hygiene measures</b>	Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Gel.
<b>Colour</b>	Colourless.
<b>Odour</b>	Slight alcoholic.
<b>pH</b>	pH (concentrated solution): 6-8
<b>Flash point</b>	22°C Pensky-Martens closed cup.
<b>Relative density</b>	0.87 @ 20°C
<b>Solubility(ies)</b>	Soluble in water.
<b>Viscosity</b>	10000 cP @ 20°C

#### 9.2. Other information

<b>Other information</b>	None.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	No test data specifically related to reactivity available for this product or its ingredients.
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#### 10.2. Chemical stability

<b>Stability</b>	No particular stability concerns.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	None known.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Acids. Oxidising agents.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Keep away from oxidising materials, heat and flames.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	Information given is based on data of the components and of similar products.
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#### Acute toxicity - oral

<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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#### Acute toxicity - dermal

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<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Based on available data the classification criteria are not met.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	Not sensitising. Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not classified. Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Does not contain any substances known to be mutagenic.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Does not contain any substances known to be carcinogenic.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Does not contain any substances known to be toxic to reproduction.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b><u>Inhalation</u></b>	
<b>Inhalation</b>	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
<b><u>Ingestion</u></b>	
<b>Ingestion</b>	Gastrointestinal symptoms, including upset stomach.
<b><u>Skin contact</u></b>	
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b><u>Eye contact</u></b>	
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

### Toxicological information on ingredients.

#### ETHANOL

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 10,470.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 10,470.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 15,800.0

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<b>Species</b>	Rabbit
<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b>ATE dermal (mg/kg)</b>	15,800.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	117.0
<b>Species</b>	Rat
<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b>ATE inhalation (vapours mg/l)</b>	117.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Not classified. Based on available data the classification criteria are not met.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	No information available. REACH dossier information.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising. REACH dossier information.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Negative. REACH dossier information.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	There is no evidence that the product can cause cancer. Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.

### SECTION 12: Ecological information

**Ecotoxicity** The product is not expected to be hazardous to the environment.

#### 12.1. Toxicity

**Toxicity** The product is not believed to present a hazard due to its physical nature.

#### Ecological information on ingredients.

#### ETHANOL

#### Acute aquatic toxicity

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<b>Acute toxicity - fish</b>	LC <sub>50</sub> , : 11200 mg/l, Freshwater fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , : 5012 mg/l, Freshwater invertebrates EC <sub>50</sub> , : 857 mg/l, Marinewater invertebrates
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - fish early life stage</b>	NOEC, : 250 mg/l, Freshwater fish
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, : 9.6 mg/l, Freshwater invertebrates NOEC, : 79 mg/l, Marinewater invertebrates

### 12.2. Persistence and degradability

**Persistence and degradability** The product is biodegradable.

### Ecological information on ingredients.

#### ETHANOL

<b>Phototransformation</b>	Air - Half-life : 38 hours REACH dossier information.
<b>Biodegradation</b>	The substance is readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### Ecological information on ingredients.

#### ETHANOL

<b>Bioaccumulative potential</b>	Low potential for bioaccumulation.
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### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

### Ecological information on ingredients.

#### ETHANOL

<b>Adsorption/desorption coefficient</b>	Expected to have a low potential for adsorption. REACH dossier information. - Koc: 1 @ °C
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### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

#### ETHANOL

<b>Results of PBT and vPvB assessment</b>	This substance is not classified as PBT or vPvB according to current EU criteria.
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### 12.6. Other adverse effects

**Other adverse effects** None known.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods



## 40% Hand Sanitizing Gel

<b>General information</b>	Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
<b>Disposal methods</b>	Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Containers should be thoroughly emptied before disposal because of the risk of an explosion.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993
UN No. (ADN)	1993

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S. (ETHANOL)

#### 14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

#### 14.6. Special precautions for user

EmS	F-E, S-E
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<b>ADR transport category</b>	3
<b>Emergency Action Code</b>	•3Y
<b>Hazard Identification Number (ADR/RID)</b>	30
<b>Tunnel restriction code</b>	(D/E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>National regulations</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). EH40/2005 Workplace exposure limits.
<b>EU legislation</b>	Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

#### 15.2. Chemical safety assessment

### SECTION 16: Other information

<b>Revision date</b>	11/02/2019
<b>Revision</b>	1
<b>SDS number</b>	21934
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H319 Causes serious eye irritation.