

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE MIXTURE AND COMPANY

- 1.1** SYR Protect Hand Sanitiser Gel
- 1.1.1 Product Reference**
SYR Protect Hand Sanitiser Gel from 8ml to 5000ml
- 1.2** The mixture is used as a Hand disinfectant.
- 1.3 Manufacturer/Distributor:**
Scot Young Research Ltd
Lye By Pass
Lye
Stourbridge
West Midlands
DY9 8HG
- 1.4 Emergency Telephone:**
+44(0)1384 421421

SECTION 2: HAZARD IDENTIFICATION

- 2.1 Classification of the mixture**
Classification (Regulation (EC) No 1272/2008)
Flammable liquid Category 2
- 2.2 Label elements**
Labelling (REGULATION (EC) No 1272/2008)

Hazard pictogram



Signal Word
Danger

Hazard statement
H225 Highly Flammable liquid and vapour

Precautionary Statements

- P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/pumping equipment.
P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
 P280 Wear protective gloves/clothing/eye protection/face protection
 P303+P361+P353 IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water/shower
 P370+P378 In case of fire : Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. No water jet.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container to a licensed facility in accordance with national regulations

2.3 Supplemental Hazard Statements

None.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Ingredient name	CAS Number	% (w/w)	Classification to 1272/2008 & Hazard phrases
Ethanol	64-17-5	70.0%	Flammable Liquid Category 2, H225
Glycerin	56-81-5	0.5%	-
Triethylamine	121-44-8	0.25%	Flammable Liquid Category 2 H225 Acute Toxicity (Oral) Category 4 H302 Acute Toxicity (Dermal) Category 4 H312 Skin Corrosion Category 1 H314 Acute Toxicity (Inhalation) Category 4 H332

For the full text of the H- & P-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 First Aid Instructions

General : If symptoms persist, call a Doctor.

Eyes : If this product comes in contact with eyes: Wash out immediately with water. If irritation continues seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin : If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Ingestion : Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Inhalation : If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

4.2 Symptoms and effects, both acute and delayed

Inhaled: The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Ingestion: Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.

Skin Contact: The material may produce adverse health effects or skin irritation following contact (as classified by EC Directives). Good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Eye: Direct contact with the eye may produce serious irritation characterised by tearing or conjunctival redness (as with windburn).

Chronic: Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives); nevertheless, exposure by all routes should be minimised as a matter of course.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable : Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Keep containers and surroundings cool with water spray.

Unsuitable : No full water jet.

5.2 Special Hazards

Do not use a solid water stream as it may scatter and spread fire.
If heated to decomposition may release CO_x and complex hydrocarbons.

5.3 Advice to firefighters

Special protective equipment for firefighters.
In the event of fire, wear self-contained breathing apparatus.

Further information

Flammable. Will support fire. Cool endangered containers or product with water spray jet.
In the event of fire do not breathe fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Glasses: Chemical goggles.

Gloves: **When handling larger quantities.**

Respirator: Type A-P Filter of sufficient capacity.

6.2 Environmental Precautions

Environmental Precautions: Prevent the material from entering drains or water courses. Advise authorities if spillage has entered water course or sewer.

Minor Spills: Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.

Major Spills: Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment. Prevent spillage from entering drains, sewers or water courses. Recover product wherever possible. Put residues in labelled containers for disposal. If contamination of drains or waterways occurs, advise emergency services.

6.3 Methods and materials for containment and cleaning up

Spill response: Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Limit all unnecessary personal contact.

Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Avoid contact with incompatible materials.

When handling, **DO NOT eat, drink or smoke.**

Keep containers securely sealed when not in use.

Avoid physical damage to containers.

Always wash hands with soap and water after handling.

Work clothes should be laundered separately.

Use good occupational work practice.

Observe manufacturer's storage and handling recommendations contained within this SDS

Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

7.2 Conditions for safe storage

Store in tightly closed plastic, plastic lined or stainless-steel containers at temperature between 10 - 30°C.

Do not store close to strong oxidising agents which could aggravate any fire situation.

When handling raw bulk wear safety glasses, PVC gauntlets and protective overalls.

Keep out of the reach of children.

Storage area should be dry, well ventilated and cool.

7.3 Specific end use

Product is designed as a Hand disinfectant for home use and is safe when used in accordance with manufacturer's instructions.

SECTION 8: CONTROL PARAMETERS

8.1 Control Parameters

Components with workplace control parameters:

UK EH40 WEL

Component	Cas No.	Workplace Exposure Limits			
		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15-minute reference period)	
		ppm	mg.g ⁻³	ppm	mg.m ⁻³
Ethanol	64-17-5	1,000	1,920	-	-
Glycerin, mist	56-81-5	-	10	-	-
Triethylamine	121-44-8	2	8	4	17

8.2 Exposure Controls

8.2.1 Appropriate engineering controls

Ventilation : Keep area well ventilated.

8.2.2 Personal Protection:

Eye Protection :

Safety glasses with side shields Chemical goggles to standard EN166.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly.



PPE Symbol

Hand Protection : Wear general protective gloves, e.g. light weight rubber gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Contaminated gloves should be replaced. Gloves

must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly

Respiratory Protection : Respiratory protection if there is a risk of exposure to high vapour concentrations.

Body protection: No special equipment needed when handling small quantities.
OTHERWISE: Overalls. Barrier cream. Eyewash unit.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

(a) Appearance:	Gel
(b) Colour:	Colourless
(c) Odour:	As standard
(d) Odour threshold	Not determined
(e) pH	7.93
(f) Melting Point	Not determined
(g) Initial Boiling Point and boiling range	Not determined
(h) Flash Point	Not determined
(i) Evaporation rate	Not Applicable
(j) Flammability	Not determined
(k) Upper/lower flammability or explosive limits	Not determined
(l) Vapour pressure	Not determined
(m) Vapour density	Not determined
(n) Specific gravity @25°C	Not determined
(o) Solubility	Not determined
(p) Partition coefficient n-octanol/water	Not Applicable
(q) Auto-ignition Temperature	Not Applicable
(r) Decomposition temperature	Not determined
(s) Viscosity	Not determined
(t) Solids content	Not determined
(u) Water	Not determined

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Not determined

Skin corrosion/irritation

Not determined

Serious eye damage/eye irritation

Not determined

Respiratory or skin sensitisation

Not determined

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeat exposure

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

mortality LC50 - Salmo gairdneri - not determined
Method OECD Test Guideline 203

Toxicity to Daphnia and other aquatic invertebrates

Immobilisation EC50 - Daphnia magna (Water flea) - not determined

12.2 Persistence and degradability

Biodegradability Biotic/Aerobic - not determined.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

data available

12.6 Other adverse effects

No data available

Biochemical Oxygen Demand (BOD) Not determined
Chemical Oxygen Demand (COD) Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of to a licensed disposal company in accordance with local regulations.

Disposal Method: When disposing of waste or surplus amount avoid contact with eyes, mouth & skin. Do not mix waste with other materials.

Do not dispose of bulk quantities directly into drains. Single units can be disposed of with other household refuse.

13.2 Contaminated packaging

Dispose of as unused product.

Refer to Section 8.2.2 for details of Personal Protective Equipment

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

UN1993

14.2 Proper shipping name

Flammable Liquid N.O.S (Contains Ethanol)

14.3 Transport hazard class

3

14.4 Packing group

II

14.5 Environmental hazard

None

14.6 Special precautions for user

Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 274, 601, 640D

Limited quantities (ADR) : 11

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02, R001

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions
(ADR)

: T7

Portable tank and bulk container special
provisions (ADR)

: TP1, TP8, TP28

Tank code (ADR) : LGBF

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Operation
(ADR)

: S2, S20

Hazard identification number (Kemler No.) : 33

33

1993

Orange plates :

Tunnel restriction code (ADR) : D/E

- Transport by sea

Special provisions (IMDG) : 274

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1, TP28, TP8

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-E

Stowage category (IMDG) : B

- Air transport

PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y341

PCA limited quantity max net quantity (IATA) : 1L

PCA packing instructions (IATA) : 353

PCA max net quantity (IATA) : 5L

CAO packing instructions (IATA) : 364

CAO max net quantity (IATA) : 60L

Special provisions (IATA) : A3

ERG code (IATA) : 3H

- Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 274, 601, 640D

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

- Rail transport

Classification code (RID) : F1

Special provisions (RID) : 274, 601, 640D

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions

(RID)

: T7

Portable tank and bulk container special

provisions (RID)

: TP1, TP8, TP28
Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE7
Hazard identification number (RID) : 33

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1272/2008

15.1 Safety, health and environmental regulations specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

No data available

Other

No further data

SECTION 16: OTHER INFORMATION

Pictogram

Flame

Signal Word

Danger

Full text of H-statements referred to under sections 2 and 3 :

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed
H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled

Full text of P-statements referred to under sections 2 and 3 :

P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking
P303+P361+P353 IF ON SKIN (or hair) : Take off immediately all contaminated clothing.
Rinse skin with water/shower
P370+P378 In case of fire : Use water spray, alcohol resistant foam, dry chemical
or carbon dioxide. No water jet.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to a licensed facility in accordance with national
regulations

Supplemental Hazard Statements

None.

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CAS-No.	Chemical Abstract Service number
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
N.O.S.	Not Otherwise Specified
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
COD	Chemical oxygen demand (COD)
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative

Reference No: N/A

Signed: 

Mark Richard Bowes-Cavanagh BSc (Hons) App. Chem CSci CChem MRSC

Date: 09 June 2020

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.

Confidential – SYR