according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

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

1.1 Product identifier

Trade name : PURELL® Hand sanitising gel VF481™

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

Use of the Sub- : Hand Sanitizer

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : GOJO Industries-Europe Ltd.

Units 5 & 6, Stratus Park

MK10 0DE Brinklow, Milton Keynes

Telephone : +44(0) 1908588444

Telefax : +44(0) 1908588445

E-mail address of person

responsible for the SDS

: infoUK@gojo.com

1.4 Emergency telephone number

+44(0) 8445605135

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting ef-

fects.

Classification (67/548/EEC, 1999/45/EC)

Flammable R10: Flammable.

Irritant R36: Irritating to eyes.

Dangerous for the environment R52/53: Harmful to aquatic organisms, may cause

long-term adverse effects in the aquatic environ-

ment.

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting ef-

fects.

Precautionary statements : **Prevention:**

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P233 Keep container tightly closed.
P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-

ately all contaminated clothing. Rinse skin

with water/shower.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

2.3 Other hazards

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Ethanol	64-17-5 200-578-6	F; R11 Xi; R36	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 50 - < 70
Propan-2-ol	67-63-0 200-661-7	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 3 - < 10
Copper Gluconate	527-09-3 208-408-2	Xn; R22 N; R50/53	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1;	>= 0.025 - < 0.1

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

H410

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment

when the potential for exposure exists.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.

Get medical attention if symptoms occur.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Get medical attention.

If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

 Version
 Revision Date:
 MSDS Number:
 Date of last issue: 10.03.2015

 2.0
 03.06.2015
 47570-00005
 Date of first issue: 13.01.2015

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Do not use a solid water stream as it may scatter and spread

fire.

Flash back possible over considerable distance. Vapours may form explosive mixtures with air.

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucts

: Carbon oxides

5.3 Advice for firefighters

Special protective equipment

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.

Use personal protective equipment.

Follow safe handling advice and personal protective equip-

ment recommendations.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

Local or national regulations may apply to releases and dis-

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.

Use only in an area equipped with explosion proof exhaust

ventilation.

Advice on safe handling : Avoid inhalation of vapour or mist.

Do not swallow. Do not get in eyes.

Avoid prolonged or repeated contact with skin.

Handle in accordance with good industrial hygiene and safety

practice.

Non-sparking tools should be used. Keep container tightly closed.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the

environment.

Hygiene measures : Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep in properly labelled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and

sources of ignition.

Advice on common storage : Do not store with the following product types:

Strong oxidizing agents Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures, which in contact with water, emit

flammable gases

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

> Explosives Gases

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m3	GB EH40		
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used					
Propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m3	GB EH40		
		STEL	500 ppm 1,250 mg/m3	GB EH40		

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Ethanol : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 1900 mg/m3 End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 343 mg/kg bw/day

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 950 mg/m3 End Use: Consumers Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 950 mg/m3 End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 206 mg/kg bw/day End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 114 mg/m3 End Use: Consumers Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 87 mg/kg bw/day

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

 Version
 Revision Date:
 MSDS Number:
 Date of last issue: 10.03.2015

 2.0
 03.06.2015
 47570-00005
 Date of first issue: 13.01.2015

Propan-2-ol : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 500 mg/m3 End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 888 mg/kg bw/day End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 89 mg/m3 End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 319 mg/kg bw/day End Use: Consumers Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 26 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Ethanol : Fresh water

Value: 0.96 mg/l Marine water Value: 0.79 mg/l Intermittent use/release

Value: 2.75 mg/l

Sewage treatment plant

Value: 580 mg/l Fresh water sediment Value: 3.6 mg/kg Marine sediment Value: 2.9 mg/kg

Soil

Value: 0.63 mg/kg

Oral

Value: 720 mg/kg

Propan-2-ol : Fresh water

Value: 140.9 mg/l Marine water Value: 140.9 mg/l Intermittent use/release Value: 140.9 mg/l Sewage treatment plant Value: 2251 mg/l Fresh water sediment Value: 552 mg/kg Marine sediment Value: 552 mg/kg

Soil

Value: 28 mg/kg

Oral

Value: 160 mg/kg

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

Use only in an area equipped with explosion proof exhaust ventilation.

Use with local exhaust ventilation.

Personal protective equipment

Eye protection : Wear the following personal protective equipment:

Safety goggles

Hand protection

Material : Impervious gloves

Flame retardant gloves

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the

end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical re-

sistance data and an assessment of the local exposure poten-

tial.

Wear the following personal protective equipment: Flame retardant antistatic protective clothing.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Respiratory protection : Use respiratory protection unless adequate local exhaust ven-

tilation is provided or exposure assessment demonstrates that

exposures are within recommended exposure guidelines.

Filter type : Organic vapour type (A)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : clear, Hazy, blue green

Odour : alcohol-like

Odour Threshold : No data available

pH : 3.5 - 5.2

Melting point/freezing point : No data available

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

Initial boiling point and boiling : 75.00 °C

range

Flash point : 26.5 °C

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 0.8850 g/cm3

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : The substance or mixture is not classified self-reactive.

Viscosity

Viscosity, kinematic : 80 - 600 mm2/s (20 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Flammable liquid and vapour.

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

Vapours may form explosive mixture with air. Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Inhalation

exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

Ethanol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Propan-2-ol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Copper Gluconate:

Acute oral toxicity : LD50 (Rat): 1,710 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

 Version
 Revision Date:
 MSDS Number:
 Date of last issue: 10.03.2015

 2.0
 03.06.2015
 47570-00005
 Date of first issue: 13.01.2015

Components:

Ethanol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Propan-2-ol:

Species: Rabbit Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Ethanol:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritation to eyes, reversing within 21 days

Propan-2-ol:

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitisation.

Components:

Ethanol:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse Result: negative

Propan-2-ol:

Test Type: Buehler Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Ethanol:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Result: negative

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Mouse

Application Route: Ingestion

Result: negative

Propan-2-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Copper Gluconate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Propan-2-ol:

Species: Rat

Application Route: inhalation (vapour)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

Result: negative

Reproductive toxicity

Not classified based on available information.

Components:

Ethanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion Method: OECD Test Guideline 416

Result: negative

Propan-2-ol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on foetal develop-

ment

: Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion

Result: negative

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version MSDS Number: Date of last issue: 10.03.2015 Revision Date: Date of first issue: 13.01.2015 2.0 03.06.2015 47570-00005

Copper Gluconate:

Effects on fertility : Species: Rat

Application Route: Ingestion

Result: negative

STOT - single exposure

Not classified based on available information.

Components:

Propan-2-ol:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Ethanol:

Species: Rat

NOAEL: 2,400 mg/kg Application Route: Ingestion

Exposure time: 2 y

Propan-2-ol:

Species: Rat

NOAEL: 5000 ppm

Application Route: inhalation (vapour)

Exposure time: 104 w

Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Ethanol:

: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Toxicity to fish

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Toxicity to algae

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 32.1 mg/l

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Date of last issue: 10.03.2015 Revision Date: MSDS Number: Date of first issue: 13.01.2015 2.0 03.06.2015 47570-00005

Exposure time: 0.25 h

Toxicity to daphnia and other aquatic invertebrates (Chron: NOEC: 9.6 mg/l Exposure time: 9 d

ic toxicity)

Species: Daphnia magna (Water flea)

Propan-2-ol:

: LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l Toxicity to fish

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h

Toxicity to bacteria : EC50 (Pseudomonas putida): > 1,050 mg/l

Exposure time: 16 h

Copper Gluconate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.07 - 0.7 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 0.7 - 2.1 mg/l

Exposure time: 48 h

Toxicity to algae : ErC50 (Scenedesmus capricornutum (fresh water algae)): 0.1

- 1 mg/l

Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.1 - 1

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

: 10

Toxicity to fish (Chronic tox-

icity)

: NOEC: > 1 - 10 μg/l

Remarks: Based on data from similar materials

Toxicity to daphnia and other : NOEC: > 1 - 10 μg/l

aquatic invertebrates (Chron-

ic toxicity)

Remarks: Based on data from similar materials

M-Factor (Chronic aquatic

toxicity)

: 10

12.2 Persistence and degradability

Components:

Ethanol:

Biodegradability : Result: Readily biodegradable

> Biodegradation: 84 % Exposure time: 20 d

Propan-2-ol:

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

Biodegradability : Result: rapidly degradable

12.3 Bioaccumulative potential

Components:

Ethanol:

Partition coefficient: n-

octanol/water

: log Pow: -0.35

Propan-2-ol:

Partition coefficient: n-

octanol/water

: log Pow: 0.05

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific.

Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

Contaminated packaging : Dispose of as unused product.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADN : UN 1987
ADR : UN 1987
RID : UN 1987
IMDG : UN 1987
IATA : UN 1987

14.2 UN proper shipping name

ADN : ALCOHOLS, N.O.S.

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

(Ethanol, Propan-2-ol)

ADR : ALCOHOLS, N.O.S.

(Ethanol, Propan-2-ol)

RID : ALCOHOLS, N.O.S.

(Ethanol, Propan-2-ol)

IMDG : ALCOHOLS, N.O.S.

(Ethanol, Propan-2-ol)

IATA : Alcohols, n.o.s.

(Ethanol, Propan-2-ol)

14.3 Transport hazard class(es)

ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADN

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

ADR

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III Labels : 3

EmS Code : F-E, S-D

IATA

Packing instruction (cargo : 366

aircraft)

Packing instruction (passen-

ger aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

: 355

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

rid

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Not applicable

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

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

: Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

: Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-

accident hazards involving dangerous substances

6 Quantity 1 Quantity 2 50,000 t

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS 5,000 t 50,000 t

34 Petroleum products: (a) 2,500 t 25,000 t

gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alterna-

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

> tive fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: < 75 %

The components of this product are reported in the following inventories:

AICS : All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of R-Phrases

R11 : Highly flammable.
R22 : Harmful if swallowed.
R36 : Irritating to eyes.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

R67 : Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H225 : Highly flammable liquid and vapour.

H302 : Harmful if swallowed.

H319 : Causes serious eye irritation. H336 : May cause drowsiness or dizziness.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids

STOT SE : Specific target organ toxicity - single exposure GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

according to Regulation (EC) No. 1907/2006



PURELL® Hand sanitising gel VF481™

Version Revision Date: MSDS Number: Date of last issue: 10.03.2015 2.0 03.06.2015 47570-00005 Date of first issue: 13.01.2015

GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

Further information

Sources of key data used to compile the Safety Data Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN