

**SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006****CardiAid® HAND GEL / 12 X 500 ML BP**

Version 1.2

Print Date 19.03.2020

Revision date / valid from 16.03.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name : CARDIAID® HAND GEL / 12 X 500 ML BP

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

Use of the Substance/Mixture : Cleaner and disinfectant

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheetCompany : Safety Products Group BV
Satellietbaan 15
2181 MG Hillegom
The Netherlands

Telephone : +31 (0) 23 5656 338

E-mail address : support@spg-bv.com
Responsible/issuing Person : Environment & Quality**1.4. Emergency telephone number**Emergency telephone : In case of personal injury call:
In the Netherlands:112

Outside these countries : Please call your local emergency services

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008

**CARDIAID® HAND GEL / 12 X 500 ML BP**



Hazard class	Hazard category	Target Organs	Hazard statements
Flammable liquids	Category 2	---	H225
Eye irritation	Category 2	---	H319

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

Most important adverse effects

Human Health	:	Chronic exposure damages the brain and the central nervous system. Causes serious eye irritation.
Physical and chemical hazards	:	Flammable. Heating may produce combustible vapour which can form explosive mixture with air., To be stored as flammable liquid.
Potential environmental effects	:	According to available data, this product is not harmful to the environment.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008**

Hazard symbols	:	 
Signal word	:	Danger
Hazard statements	:	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
Precautionary statements	:	
Prevention	:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	:	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/attention.

Hazardous components which must be listed on the label:

**CARDIAID® HAND GEL / 12 X 500 ML BP**

- ethanol
- propan-2-ol

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.
Contains organic solvents.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
ethanol			
Index-No. : 603-002-00-5	>= 50 - < 70	Flam. Liq.2	H225
CAS-No. : 64-17-5			Eye Irrit.2
EC-No. : 200-578-6			
EU REACH- : 01-2119457610-43-xxxx			
Reg. No.			
propan-2-ol			
Index-No. : 603-117-00-0	>= 3 - < 10	Flam. Liq.2	H225
CAS-No. : 67-63-0			Eye Irrit.2
EC-No. : 200-661-7		STOT SE3	H336
EU REACH- : 01-2119457558-25-xxxx			
Reg. No.			

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

Non-hazardous component

Chemical name	Identification Number	Amount [%]
Glycerol	CAS-No. : 56-81-5 EC-No. : 200-289-5	1

SECTION 4: First aid measures**4.1. Description of first aid measures**

- If inhaled : Move to fresh air. If symptoms persist, call a physician.
- In case of skin contact : If symptoms persist, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

**CARDIAID® HAND GEL / 12 X 500 ML BP**

for at least 5 minutes. Remove contact lenses. If symptoms persist, call a physician.

If swallowed : Rinse mouth. Drink 1 or 2 glasses of water. Consult a physician.

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

Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.
No further information available.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media : Water spray, foam, dry powder or CO₂.

Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Incomplete combustion may form toxic pyrolysis products.

5.3. Advice for firefighters

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

Further advice : Use water spray to cool unopened containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil. In case of large spillage contact the local authority.

6.3. Methods and materials for containment and cleaning up

**CARDIAID® HAND GEL / 12 X 500 ML BP**

Methods and materials for containment and cleaning up : Stop the leakage if it can be done without danger. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). The surface of the spill can be covered in order to reduce vaporization and thereby the fire hazard.

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapour. Avoid contact with skin, eyes and clothing. Keep away from fire (No Smoking). Keep away from heat and sources of ignition.

Hygiene measures : Smoking, eating and drinking should be prohibited in the application area.
Contaminated work clothing should not be allowed out of the workplace.
Wash hands before breaks and at the end of workday.
Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep away from food, drink and animal feedingstuffs. Keep tightly closed in a dry and cool place. To be stored separately from incompatible substances. See section 10. Storage must follow the regulations for flammable liquids: Class I-2 (DK only).

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Component:	ethanol	CAS-No. 64-17-5
-------------------	----------------	------------------------

Other Occupational Exposure Limit Values

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3, as amended, Threshold Limit Values (TLV):

**CARDIAID® HAND GEL / 12 X 500 ML BP**1.000 ppm, 1.900 mg/m³

Component:	propan-2-ol	CAS-No. 67-63-0
-------------------	--------------------	------------------------

Other Occupational Exposure Limit Values

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3, as amended, Threshold Limit Values (TLV):
200 ppm, 490 mg/m³

8.2. Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation.

Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors.

Exposure may primarily be reduced by choice of working method and technical measures.

Personal protective equipment*Respiratory protection*

Advice : Suitable respiratory protective device
Recommended Filter type:A

Hand protection

Advice : Applies to handling for longer periods or of large amounts
The exact break through time can be obtained from the protective glove producer and this has to be observed.
Choose right chemical protection as:

Material : butyl-rubber

Eye protection

Advice : Safety glasses with side-shields

Skin and body protection

Advice : Protective work clothing

Environmental exposure controls

General advice : The product should not be allowed to enter drains, water courses or the soil.
In case of large spillage contact the local authority.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

**CARDIAID® HÅNDSPRIT / 12 X 500 ML BP**

Form	: liquid
Colour	: colourless
Odour	: solvent-like
Odour Threshold	: no data available
pH	: no data available
Freezing point	: no data available
Boiling point	: no data available
Flash point	: < 21 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Density	: ca. 0,86 g/cm ³
Water solubility	: miscible
Partition coefficient: n -octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Explosivity	: no data available
Oxidizing properties	: no data available

9.2. Other information

No further information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Advice : No information available.

**CARDIAID® HAND GEL / 12 X 500 ML BP****10.2. Chemical stability**

Advice : No decomposition if stored and applied as directed.
No further information available.

10.3. Possibility of hazardous reactions

Hazardous reactions : No information available.

10.4. Conditions to avoid

Conditions to avoid : No information available.

10.5. Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products : No information available.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Data for the product****Acute toxicity****Oral**

no data available

Inhalation

no data available

Dermal

no data available

Irritation**Skin**

Result : Degreases the skin.
Prolonged skin contact may cause skin irritation.

Eyes

Result : Causes serious eye irritation.

Sensitisation

**CARDIAID® HAND GEL / 12 X 500 ML BP**

no data available

CMR effects**CMR Properties**

Carcinogenicity : no data available

Mutagenicity : no data available

Reproductive toxicity : no data available

Specific Target Organ Toxicity**Single exposure**

no data available

Repeated exposure

no data available

Other toxic properties**Repeated dose toxicity**

no data available

Aspiration hazard

no data available

Further information

Experience with human exposure : Contains organic solvents.
Chronic exposure damages the brain and the central nervous system.,

SECTION 12: Ecological information**12.1. Toxicity**

Component:	ethanol	CAS-No. 64-17-5
-------------------	----------------	------------------------

Acute toxicity**Fish**

**CARDIAID® HAND GEL / 12 X 500 ML BP**

LC50	:	15.300 mg/l (Pimephales promelas (fathead minnow); 96 h) (flow-through test; US-EPA)
LC50	:	11.200 mg/l (Salmo gairdneri; 24 h) (flow-through test; US-EPA)
LC50	:	13.000 mg/l (Oncorhynchus mykiss; 96 h) (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

EC50	:	858 mg/l (Artemia salina; 24 h) (OECD Test Guideline 202) Marine water
EC50	:	12.340 mg/l (Daphnia magna (Water flea); 48 h) (ASTM E 729-80) Fresh water
LC50	:	5.012 mg/l (Ceriodaphnia dubia (water flea); 48 h) (static test; ASTM E 729-80) Fresh water

algae

EC50	:	275 mg/l (Chlorella vulgaris (Fresh water algae); 72 h) (static test; End point: Growth rate; OECD Test Guideline 201) Fresh water
EC10	:	11,5 mg/l (Chlorella vulgaris (Fresh water algae); 72 h) (static test; OECD Test Guideline 201)

Bacteria

EC50	:	5800 mg/l (Paramecium caudatum; 4 h) (static test; No guideline followed)
------	---	---

Component:	propan-2-ol	CAS-No. 67-63-0
-------------------	--------------------	------------------------

Acute toxicity**Fish**

LC50	:	9.640 mg/l (Pimephales promelas; 96 h) (flow-through test; OECD Test Guideline 203)
------	---	---

Toxicity to daphnia and other aquatic invertebrates

LC50	:	9.714 mg/l (Daphnia magna; 24 h) (static test; OECD Test Guideline 202)
------	---	---

algae

EC50	:	> 100 mg/l (Scenedesmus subspicatus; 72 h)
LOEC	:	1000 mg/l (algae; 8 d)

**CARDIAID® HAND GEL / 12 X 500 ML BP****Bacteria**

EC50 : > 100 mg/l (Bacteria) no harming action

12.2. Persistence and degradability**Data for the product****Persistence and degradability****Biodegradability**

Result : Expected to be biodegradable

Component: ethanol CAS-No. 64-17-5

Persistence and degradability**Persistence**

Result : (Related to: Water) non-significant hydrolysis

Biodegradability

Result : 97 % (aerobic; activated sludge; Related to: CO₂ formation (% of the theoretical value).; Exposure Time: 28 d)(OECD Test Guideline 301B)Readily biodegradable.

Component: propan-2-ol CAS-No. 67-63-0

Persistence and degradability**Persistence**

Result : Transformation due to hydrolysis not expected to be significant.
Transformation due to photolysis not expected to be significant.

Biodegradability

Result : 53 % (aerobic; domestic sewage; Related to: O₂ consumption; Exposure Time: 5 d)(Directive 67/548/EEC, Annex V, C.5)Readily biodegradable.

12.3. Bioaccumulative potential

Component: ethanol CAS-No. 64-17-5

Bioaccumulation

Result : log Kow -0,35 (24 °C; pH 7,4) (OECD Test Guideline 107)
: BCF: 0,66; Does not bioaccumulate.

**CARDIAID® HAND GEL / 12 X 500 ML BP**

Component:	propan-2-ol	CAS-No. 67-63-0
-------------------	--------------------	------------------------

Bioaccumulation

Result : log Kow 0,05
: Bioaccumulation is not expected.

12.4. Mobility in soil

Component:	ethanol	CAS-No. 64-17-5
-------------------	----------------	------------------------

Mobility

Water : The product is water soluble.
Air : The product evaporates readily.
Soil : Not expected to adsorb on soil.

Component:	propan-2-ol	CAS-No. 67-63-0
-------------------	--------------------	------------------------

Mobility

Water : The product is water soluble.
Soil : Mobile in soils

12.5. Results of PBT and vPvB assessment**Data for the product****Results of PBT and vPvB assessment**

Result :
Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component:	ethanol	CAS-No. 64-17-5
-------------------	----------------	------------------------

Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Component:	propan-2-ol	CAS-No. 67-63-0
-------------------	--------------------	------------------------

Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

**CARDIAID® HAND GEL / 12 X 500 ML BP****Data for the product****Additional ecological information**

Result : The product is mobile in water environment.
The product evaporates readily.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

- Product : Eliminate waste in conditions authorized by the regulations.
Store waste in containers provided for this purpose. Do not dump in drains, water sheets or the ground.
- Contaminated packaging : Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

|| Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

**CARDIAID® HAND GEL / 12 X 500 ML BP****14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

IMDG : Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical safety assessment**

no data available

SECTION 16: Other information**Full text of H-Statements referred to under sections 2 and 3.**

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Abbreviations and Acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level

**CARDIAID® HAND GEL / 12 X 500 ML BP**

OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

Key literature references : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

|| Indicates updated section.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.