

Safety Data Sheet

WINTERSTEIGER

A-4910 Ried/l., Dimmelstr. 9
Tel.: 07752/919-0, Fax: -52
e-mail: sports@wintersteiger.at
Internet: www.wintersteiger.com

1. Product:

Disinfection Product STERIBIO 10 lt. Ref.No. 55-100-767
Disinfection Product STERIBIO 24 pcs. Spray Bottles 250ml
Ref.No. 55-100-822

1 – Company product identification

Product :

Name : STERIBIO +

Product code: STEB+

2 – Ingredient identification**Dangerous substances:**

(present in the preparation at a concentration sufficient to provide toxic characteristics as that at 100% pure)

603-117-00-0 Cas 67-63-0 ISOPROPYLENE ALCOHOL, conc. between 1 and 20% F Xi R : 11-36-67

603-002-00-5 Cas 64-17-5 ETHYLENE ALCOHOL, conc.between 5% and 30% F R 11

Other dangerous substances:

No other known substance in this category is present.

Substances present at a concentration inferior to the minimal danger threshold:

No other known substance in this category is present.

Other substances having professional exposure limit values:

No other known substance in this category is present.

3 – Identification of hazardous nature

This product is classed : flammable liquid

Other data:

This product is dangerous when spread or if the liquid releases vapors. A flammable mixture can form in the atmosphere at a temperature equal or greater than the flash point.

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4 – Emergency first aid

In all cases seek medical attention. In the meantime follow the instructions below. DO NOT intervene if person is unconscious :

Inhalation : If respiratory problems are experienced remove the person from the polluted atmosphere and provide fresh air. Keep person rested and warm.
If respiration is irregular or has stopped, perform artificial respiration.

Skin contact : Immediately remove soiled clothing and abundantly rinse skin with water for 10 to 15 minutes. Clothing should be used only after being washed.
Seek medical advice if irritation appears or persists.

Eye contact : Immediately rinse with water abundantly for 15 min whilst keeping eyelids open.
Seek advice from an ophthalmologist if irritation persists.

Ingestion : If only a little has been ingested (no more than a mouthful), rinse mouth out with water and seek medical advice. In case of larger ingestion seek medical attention and possible hospital treatment and show packaging. Keep patient rested. DO NOT induce vomiting. DO NOT drink.

5 – Fire fighting procedures

Appropriate fire fighting media :

- Appropriate : Special polar liquid foams, powders and carbon dioxide.
- Cool recipient exposed to fire with water.

Fire fighting procedures not to be used : Do not breathe in fumes.

The fire will often produce thick black smoke. Exposure to decomposed products may be a health hazard. Avoid contaminating sewerage systems with waste water. Water is not generally recommended as a fire fighting media due to possible inefficacy but can be used to cool recipients exposed to fire to disperse vapors.

Fire fighting equipment : Autonomous respiratory apparatus should be provided.

6 – Handling procedures in case of accidental dispersal

Individual precautions : Remove all possible ignition sources and ventilate the premises. Warn of all possible flammable risks. Avoid inhalation and skin contact. Wear gloves, safety spectacles and if necessary a protective face mask. Adhere to warnings stated in paragraphs 7 and 8. If the contaminated area is large evacuate personnel and authorize only trained persons equipped with protective material to intervene.

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6 – Handling procedures in case of accidental dispersal - Continued

Precautions for environmental protection: Recover product with a non-combustable absorbent such as sand, earth, vermiculite and dispose of carefully as stated in section 13. Avoid contaminating sewerage systems. If water ways such as rivers or drains are contaminated contact the authorities.

Clean-up procedures : Neutral Absorbents. Clean up should be performed by the appropriate authority.

7 – Precautions for safe handling, storage and use

The requirements for storing on premises are applicable to the workshop where the product is used.

Handling :

Use in well ventilated premises.

Vapors are heavier than air. They can linger above the ground and cause an explosive mixture with air.

Avoid creating flammable concentrations or explosives in the air and avoid vapor concentrations greater than professional exposure limit values.

Keep away from naked flame..

Avoid electrostatic charge accumulation.

Follow instructions on hygiene and safety matters and take into consideration product flammability.

Do not breathe in fumes.

Do not smoke.

Fire prevention :

The product can be electrostatically charged.: during pouring keep earth. Wear antistatic shoes and clothes and be aware if ground is of conducting material.

Use in well ventilated premises and keep away from naked flames and other points of ignition and provide electrically protected equipment.

Keep the packaging firmly closed and keep away from heat sources, sparks and naked flames.

Do not use tool that could cause sparks.

Do not smoke.

Do not allow access to non-authorized persons.

VAPOURS MAY BE TOXIC IN CASE OF COMBUSTION

Avoid all contact with heated surfaces of ignition points.

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7 – Precautions for safe handling, storage and use - Continued

Keep away from electrical equipment.

Recommended equipment and procedures :

Adhere to indicated warnings on the ticket as well as work safety rules.

Opened packaging should be carefully closed and kept in an upright position.

Do not breathe in fumes.

DO NOT SMOKE

Avoid eye contact.

Non-recommended equipment and procedures:

It is forbidden to smoke, eat or drink upon premises where product is used.

Never open packaging by pressure.

It is not recommended to wear contact lenses.

Storage :

Keep container well closed in a dry well ventilated place.

Keep away from all sources of ignition and incompatible materials (see section 10) – Do not smoke.

Keep away from all sources of ignition, heat and direct sunlight.

Keep away from children.

Ground premises should be unpenetrable and form a retent on bath in case of accidental spillage.

Liquid should not be able to contaminate outside the premises.

Glass can be used for small amounts. In this case, containers should be protected by a fitted more resistant metal surrounding.

8 – Occupational control procedures

Technical procedures :

Keep in well ventilated area, if possible, by extractor hoods above workplace and on site. If ventilation is not sufficient to maintain solvent vapors below exposure limit values wear respiratory apparatus.

Exposure limit values according to INRS ND 1945-153-93/(1996) and ND 2022-163-96

| France | VME-ppm | VME – mg/m ³ | VLE – ppm | VLE-mg/m ³ | Notes | TMP N° |
|--------------|---------|-------------------------|-----------|-----------------------|-------|--------|
| 603-117-00-0 | - | - | 400 | 980 | - | 84 |
| 603-002-00-5 | 1000 | 1900 | 5000 | 9500 | - | 84 |

| Germany | Category | MAK-ppm | MAK-mg/m ³ | Notes | Notes |
|--------------|----------|---------|-----------------------|-------|-------|
| 603-117-00-0 | II,1 | 400 | 980 | - | - |
| 603-002-00-5 | IV | 1000 | 1900 | - | - |

| ACGIH(TLV) | TWA-ppm : | TWA-mg/m ³ | STEL-ppm | STEL-mg/m ³ | Notes | Notes |
|--------------|-----------|-----------------------|----------|------------------------|-------|-------|
| 603-117-00-0 | 400 | 983 | 500 | 1230 | - | - |
| 601-004-00-0 | 1000 | 1880 | - | - | - | - |

Respiratory protection equipment

If employees are to be exposed to concentrations greater than the exposure limits they must wear the appropriate safety mask

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Hand protection :

Wear solvent resistant gloves.

Eye and face protection :

Avoid eye contact.

Wear safety glasses if risk of splashes.

Have eyewashes safety showers available upon premises where product is handled

Skin protection :

Keep premises and workplace tidy. Clean regularly.

Maintain personal hygiene standards.

9 – Physical and chemical characteristics

| | |
|---|------------------------------|
| Mass weight | <1 |
| Acid-base characteristics | not relevant |
| Water solubility | soluble |
| Vapor pressure at 50°C. of volatile ingredients | less than 110 Kpa (1.10 bar) |
| Appearance | liquid fluid |
| The pH is not possible to measure of its value is | not determined |
| Auto flammability temperature | > 363°C |
| Decomposition temperature | not determined |
| Flash point | > 21°C |

10 – Stability and reactivity

Exposure to elevated temperatures may cause hazardous decomposition products to be released such as carbon mono- and dioxide, smoke, nitrogen oxide. All apparatus with a metal surface suspected of emitting a flame or high temperature (burners, ovens) should be banned from the premises.

The product is stable under normal usage conditions stated in paragraph 7

Conditions to avoid

Its oxydation drives firstly at the acetone then a mixture of acid (acetic acid) and carbon dioxide.

Materials to avoid

Explosive reaction with hydrogen peroxide, chrome trioxide and nitric acid fumes. May react dangerously with strong oxidising agents such as a mixture of nitro or sulfo-chromic, nitric acid, percolates, peroxides and in a general manner, all organic or mineral compounds rich in oxygen and unstable.

11 – Toxicological data

Exposure to solvent fumes contained in the product above the indicated exposure limit could be harmful to health, such as:

Irritation to mucus membranes and respiratory system, kidney, liver and central nervous system problems. Possible symptoms include tiredness, headaches, dizziness, muscular aching and in extreme cases lack of consciousness. Prolonged or repeated exposure may cause skin irritation and defatting of natural skin oils. Eye contact may cause irritation and irreversible damage.

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12 – Ecological data

Avoid all contamination with sewerage and water systems.

Aquatic toxicity:

For Isopropyl alcohol:

Fish : CL50 (96h) = 9640 mg/l, Daphnies : CE50 (48h) = 13299 mg/l, Algae : CE50 (72h) > 1000 mg/l

For ethylene alcohol :

Fish : CL50 (24h) = 11400 mg/l, Algae : CE50 (24h) = 5000 mg/l

13 – Disposal procedure

Do not pour into drains or water systems.

Waste products :

Recycle or dispose of complying to legislation. Hand to an authorised recuperator. Do not contaminate ground or water systems with waste products. Do not dispose of in the environment.

Soiled packaging :

Completely empty the container. Keep the labels on the containers. Hand to an authorised recuperator.

Local laws :

Waste disposal rulings :

Law 75-633 of 15/07/75 and decree 77-974 of 19/08/77 ; decree 79-981 of 21/11/79 modified by the decree 85-387 of 29/03/85

Law 88-1261 of 30/12/88 decree 90-267 of 23/03/90 relative to the importing, exporting and transit of dangerous waste products.

Law 92-646 of 13/07/92 relative to the removal and recovery of waste product materials. From 02/02/98 relative to rulings.

14 – Transport data (International regulations)

Transport the product conforming to the ADR regulations for the road, RID for rail, IMDG for sea and ICAO/IATA for air transport

UN 1950 = aerosols, nsa.

| ADR/RID | Class | Figure | Code | Identif. | Label | | |
|---------|-------|--------|-------|----------|---------|----------|--------|
| | 3 | 31c | 30 | 1993 | 5 | | |
| IMDG | Page | N°ONU | Class | Group | 2°Label | Identif. | N°GSMU |
| | - | 1993 | 3.3 | III | | 3-07 | |

15 – Regulation data

The classification of this product was made according to the said directive 'all 88/379/CEE and of its adaptations.

Also taken into account was the directive 98/98/CE carrying 25th adaptation to the directive 67/548/CE (dangerous substances).

Classification of product: flammable

Particular risks given to the product and warning:

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R10 flammable

Particular dispositions :

Nomenclature of classed installations (France) (For Quantity read Total Quantity present in the installation)

- N° 1432 = storage of flammable liquids present in Qty. $> 100 \text{ m}^3 \Rightarrow$ Regime Authorisation and area of show 2 Km
- N° 1433 = installation of mixture or instructions of flammable liquids at the exclusion of simple cold mixture if $> 10 \text{ T} \Rightarrow$ Regime Authorisation and area of show 2 Km ; if Qty present $\geq 1 \text{ T}$ but $\leq 10 \text{ T} \Rightarrow$ Regime Declaration
- N° 1434 = installation of filling or of distribution of flammable liquids
Regime Declaration if the debit is $\geq 1 \text{ m}^3/\text{h}$ but $< 20 \text{ m}^3/\text{h}$
Regime Authorisation if the debit is $\geq 20 \text{ m}^3/\text{h}$

16 – Additional information

Not to be used other than as indicated on package

The information provided in this form should be considered as a description of safety relative to the product and not as a product guarantee.

This comprehensive form does not replace out technical form. Information contained in this form is to the best of our knowledge as of the indicated date and given in good faith. The users attention is drawn to the possible risks run if the product is not used for the intended purposes.

This does not exempt the user to know and apply the totality regulating its activity. The user shall take full responsibility for the precautions linked to the use of this product.

The totality of the mentioned regulation dictates is simply to assist the addressee to fulfil his obligation. This list cannot be exhaustive. The addressee must insure himself that other obligations from the rulings other than these here do not apply.