

SAFETY DATA SHEET

Public / trade-secret version — United States and Canada

Product: BETTER FEET® Shoe Spray
Product type: Alcohol-based shoe deodorant spray
Prepared from supplier SDS dated 07 July 2020

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1. Identification of the substance/mixture and of the company/undertaking

Product identifier: BETTER FEET® Shoe Spray

Recommended use: Alcohol-based deodorizing spray for footwear. Professional and consumer use as directed.

Uses advised against: Do not use near ignition sources. Do not spray toward eyes or face. Do not use it for purposes other than the intended footwear application.

U.S. responsible person: BETTER FEET LLC, 131 Continental Dr, Suite 305, Newark, DE 19713, USA

Contact: sales@better-feet.com | +1 (855) 589-3337

Canadian responsible entity: BETTER FEET INC., 145 King Street West, Unit 2701, Toronto, Ontario M5H 1J8, Canada

Contact: sales@better-feet.com | +1-833-856-3338

Actual contract manufacturer: CONFIDENTIAL — maintained in controlled regulatory records and disclosed where legally required.

2. Dangers

Hazard description: F — Flammable.

Particular hazard information for people and the environment: The vapors of the product are heavier than air and can collect in higher concentrations on the ground, in pits, channels and basements.

R 11 Highly flammable.

Classification: The classification corresponds to the current EC-lists, but is supplemented by information from the specialist literature and company information.

3. Composition / information on ingredients

Description: Preparation.

Hazardous ingredients:

Component	CAS No.	Source classification	Source concentration
Ethanol	64-17-5	F; R11	50–100%
2-Propanol (isopropanol)	67-63-0	Xi, F; R11, R36, R67	2.5–10%

Additional information: The wording of the listed hazard warnings can be found in Chapter 16.

4. First-aid measures

General information: Remove the affected persons from the danger area and lay them down. Bring those affected to fresh air. Keep warm, lay quietly and cover. Remove clothing contaminated with the product. In case of unconsciousness, place and transport in a stable sideways position.

After inhalation: Supply of fresh air, if necessary breath donation, warmth. Consult a doctor if symptoms persist.

After skin contact: Clean with soap and water, if possible also with polyethylene glycol 400. Consult a doctor if skin irritation persists.

After eye contact: Rinse eyes under running water for several minutes with the eyelids open. Consult a doctor if symptoms persist.

After swallowing: Rinse out mouth and then drink plenty of water.

Notes for the doctor:

Symptoms of acute poisoning:

Substance ingested percutaneously and inhalatively only causes, in addition to irritation of the affected mucous membranes, an indicated impairment of the inhibitory functions of the CNS, clinically recognizable as the beginning of a euphoric stage. At the same time, reddening of the face and skin, caused by the widening of the blood vessels in the body periphery, is noticeable. Use alcohol detection tubes to confirm the diagnosis and estimate the amount absorbed.

Advice on first medical aid:

Generally no treatment required, if necessary protection against heat loss and symptomatic measures indicated. Further inpatient treatment after poisoning is only necessary in exceptional cases.

5. Fire-fighting measures

Suitable extinguishing media: CO₂, Dry powder or water spray. Larger fire with water spray or fight alcohol-resistant foam.

Can form explosive gas-air mixtures.

In case of fire, the following can be released: Carbon monoxide and carbon dioxide.

Special protective equipment: Wear self-contained breathing apparatus. Wear a full protective suit.

Further information: Cool endangered containers with water spray. Collect contaminated extinguishing water separately. It must not enter the sewage system.

6. Accidental release measures

Personal precautions: Wear protective equipment. Keep unprotected people away. Provide adequate ventilation. Keep away from ignition sources.

Environmental precautions: Do not allow to enter sewers / surface or ground water. Prevent entry into sewers, pits and basements.

Methods for cleaning up / taking up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Provide adequate ventilation.

Additional information: For information on safe handling, see Section 7. Information regarding personal protective equipment see chapter. 8. Information to disposal see chapter 13.

7. Handling and storage

Handling Advice on safe handling: Store in cool, dry conditions in tightly closed containers. Use only in well-ventilated areas. Ensure good room ventilation also in the floor area (vapors are heavier than air).

Advice on protection against fire and explosion: Take precautionary measures against static discharges. Keep ignition sources away - do not smoke.

Storage: Requirements to be met by storerooms and containers: Provide solvent-resistant and airtight floor. Keep container tightly closed. Store in a cool place, heating leads to pressure increases and the risk of bursting. Observe the requirements of VAWs for the storage of substances hazardous to water.

Advice on common storage: Stow, store or load separately from food, feed and luxury foods. Bans on joint storage with materials of storage classes 1, 2A, 4.1A, 4.1B, 4.2, 4.3, 5.1A, 5.1C, 5.2, 6.1B and 6.2, as well as restrictions on joint storage with materials of storage classes 2B, 5.1B, 7, 8A, 8B and 11 must be observed (VCI concept).

Further information on storage conditions: Store in well-closed containers in a cool, dry place. Storage class: 3 A (VCI 1998)

8. Exposure controls / personal protective gear

Additional information about the design of technical systems: No further data; see point 7.

Components with workplace-related limit values to be monitored:

64-17-5 Ethanol

AGW 960 mg/m³, 500 ml/m³
2(II);DFG, Y

67-63-0 2-Propanol

AGW 500 mg/m³, 200 ml/m³
2(II);DFG, Y

General protective and hygienic measures: Do not eat, drink, smoke or sniff while working. Wash hands before breaks and at the end of work.

The usual precautionary measures when handling chemicals must be observed. Preventive skin protection recommended. Apply water-insoluble skin protection products to clean skin before starting work and after each break and rub in carefully. Skin must be cleaned with soap and water before breaks and at the end of work. Use fatty skin care products after cleaning. Do not eat, drink, sniff or smoke while working. Observe leaflet A008 "Personal protective equipment" issued by BG Chemie.

Respiratory protection: In exceptional situations (e.g. unintentional release of substances, exceeding the air limit value) it is necessary to wear respiratory protection. Note wearing time limits.

Respiratory protection device: Gas filter A, color code: brown Details on the requirements for use and maximum concentrations can be found in the "Rules for the use of respiratory protection devices" (BGR 190).

Respiratory protection device:

Isolation device. Use at concentrations above the application limit of filter devices, at oxygen contents below 7 vol% or under unclear conditions.

Hand protection:



Protective gloves

Selection of the glove material taking into account the penetration times, rates of diffusion and the degradation.

Glove material: Butyl rubber Recommended material thickness: ≥ 0.5 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Since the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and must therefore be checked before use. Observe the rules for the use of protective gloves ZH 1/706 and the rules for the use of skin protection ZH 1/708.

Penetration time of glove material: Value for the permeation: Level ≥ 8 h

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly fitting protective goggles.

Observe the rules for the use of eye and face protection (ZH 1/703).

Body protection: Solvent-resistant protective clothing

Limitation and monitoring of the environmental exposure:

Water (76/464 / EEC): not listed

Air (1999/30 / EG): not listed

9. Physical and chemical properties

General Information

Form:	liquid
Color:	colorless
Odor:	Alcoholic
Change of state	
Melting point / melting range:	-117 ° C (OECD 102)
Boiling point / boiling range:	78 ° C (OECD 103)
Flash point:	10.5 ° C (DIN 51755)
Ignition temperature:	425 ° C (DIN 51794)
Explosion hazard:	Development of explosive gases / vapors.
Explosion limits:	Lower: 3.5 vol% Upper: 15 vol%
Vapor pressure at 20 ° C:	59 hPa
Density at 20 ° C:	0.79 g / cm ³
Solubility in / Miscibility with Water:	Completely mixable
pH value (100 g / l) at 20 ° C:	approx. 7 (DIN 53785)
Solvent content	approx. 90%

10. Stability and Reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used as directed.

Substances to be avoided: Do not store together with oxidizing and acidic substances or heavy metal compounds.

Dangerous reactions: Development of highly flammable gases / vapors.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

64-17-5 Ethanol

Oral LD₅₀ 5000 mg/kg (rat OECD 401)

Dermal LD₅₀ > 10000 mg/kg (rabbit OECD 402)

Inhalativ LC₅₀/4h > 1800 mg/l (rat OECD 403)

Thermal decomposition / conditions to be avoided: Primary irritant effect:

on the eye: slightly irritating

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity: Tissue changes after repeated oral application or inhalation (rat). If the product has been in contact with the skin for a long period of time: dermatitis, degreasing effect on the skin.

Additional toxicological information:

Reproductive toxicity: Negative effects on the male reproductive system and on the development of laboratory animals. There is no need to fear a risk of fruit damage if the MAK values are adhered to.

Mutagenicity: mes test (OECD 471) negative, but mutagenic effects demonstrated in animal experiments. The genotoxic effect is considered to be so low that no hereditary damage is to be feared if the MAK values are observed.

Carcinogenicity: If the MAK value is observed, no significant contribution to increasing the cancer risk is to be expected.

12. Environmental information

Information on elimination (persistence and degradability)

Other information: The product is easily biodegradable. Behavior in environmental compartments

Mobility and bioaccumulation potential: Due to the n-octanol / water distribution coefficient, no significant accumulation in organisms is to be expected.

Ecotoxic effects

Aquatic toxicity:

64-17-5 Ethanol

EC₅₀ > 5000 mg/l (daphnia magna, 48 h, OECD 202)

IC₅₀ > 100 mg/l (scenedesmus subspicatus, 72 h, OECD 201)

LC₅₀ > 2000 mg/l (leuciscus idus, 96 h, OECD 203)

Behavior in sewage treatment plants:

64-17-5 Ethanol

EC₅₀ > 1000 mg/l (pseudomonas putida, DIN 38 421, part 8)

Further ecological information:

CSB-Wert: 1900 mg/g

BSB₅-Wert: 1000 mg/g

AOX-Note: The product does not contribute to increasing the AOX in wastewater.

According to the recipe, contains the following heavy metals and compounds from EC Directive No.

76/464 EWG: non.

13. Disposal considerations

Product:

Recommendation: Must not be disposed together with household garbage. Do not empty into drains. Disposal according to official regulations.

Uncleaned packaging:

Recommendation: Empty the packaging completely, if necessary clean with water. Dispose of rinsing and cleaning water in compliance with local official regulations. Non-contaminated packagings can be reused. Packaging that cannot be cleaned must be disposed of like the product.

14. Angaben zum Transport

Land transport ADR / RID and GGVS / GGVE (cross-border / Inland)



ADR/RID-GGVS/E Class:	3 Flammable liquids
Kemler-No:	33
UN-No.:	1987
Packing group:	II
Hazard label:	3
Description of goods:	1987 ALCOHOLS, N.A.G. (ETHANOL, SOLUTION (ETHYLALKOHOL, LÖSUNG), ISOPROPANOL (ISOPROPYL ALCOHOL))
Limited quantity (LQ)	LQ4
Transport category	2
Tunnel restriction code	D/E

Inland waterway transport ADN / ADR

ADN / R class:	3
Sea transport IMDG / GGVSee	



IMDG/GGVSee-Cass:	3
UN-No:	1987
Label:	3
Packing group:	II
EMS-No.:	F-E,S-D
Marine pollutant:	No
Correct technical name:	ALCOHOLS, N.O.S. (ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), ISOPROPANOL (ISOPROPYL ALCOHOL))

Air transport ICAO-TI and IATA-DGR



ICAO/IATA-Class:	3
UN/ID-No.:	1987
Label:	3
Packing group:	II
Correct technical name:	ALCOHOLS, N.O.S. (ETHANOL SOLUTION, ISOPROPANOL (ISOPROPYL ALCOHOL))

15. Legal information

Labeling according to EEC guidelines:

The product is classified and labeled according to EC directives / GefStoffV.

Code letter and hazard designation of the product:

F Flammable

R-Sätze:

11 Flammable.

S-Sätze:

7/9 Keep the container tightly closed in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

60 This material and its container must be disposed of as hazardous waste.

National regulations:

Notes on employment restrictions:

Observe employment restrictions for young people.

Hazardous Incident Ordinance: The quantity thresholds according to the Hazardous Incident Ordinance must be observed.

Listed under No. 7b in Appendix I to the 12th BImSchV of May 2nd, 2000 Classification according to the Ordinance on Industrial Safety and Health (BetrSichV): Highly flammable. Technical instructions air (07/02):

Section 5.2.5

Water hazard class: WGK 1: slightly hazardous to water (according to VwVwS appendix 4).

16. Other Information

The information is based on the current state of our knowledge, but it does not represent any assurance of product properties and does not establish a contractual legal relationship. It is the responsibility of the recipient of our products to observe applicable laws and regulations.

Reasons for changes: General changes.

Relevant R-phrases:

11 Highly flammable.

36 Irritating to eyes.

67 Vapors may cause drowsiness and dizziness.

Recommended restriction of use: Unless otherwise specified or agreed, the product is intended exclusively for professional use. This includes the areas of application listed in the technical information accompanying the product. Other intended applications should be discussed with the manufacturer. This applies in particular to use as a public product or delivery to private end consumers, where specific standards and legal regulations apply.

Swell: IUCLID, International Uniform Chemical Database (European Commission)

GESTIS substance database of the trade association institute for occupational safety - BIA. Leaflets

BG Chemie