#### "There is a science behind olfaction, not a guru"

#### **SOKKS® Micro Particle Systems (SOKKS® MPTS):**

# **SOKKS Odor source detection conditioning The Basic Concept**

SOKKS® Micro Particle Systems (SOKKS® MPTS) is developed to selectively detect and localize odor-releasing objects by olfactory mediated conditioned animals, especially canines. It is based on scientific research. Its application is exclusively directed to support military, police and else equivalent certified taskforces.

Combining the advantages of extreme low and pure source loads (no pseudo) - even as mixtures - the development of the SOKKS -Micro-Particle System settles the tasks long been pretended for safe, ergonomic, economic especially well-defined and well reproducible animal odor source detection conditioning.

Developed in 1997, SOKKS® Micro-Particle Conditioning System has meanwhile gained a world-wide application standard to detect sources of explosives, arsons, narcotics, lost persons and corps and paper money.

The SOKKS <sup>®</sup> Micro Particle system is suited for conditioning on almost all odorous products.

#### For further details and references contact:

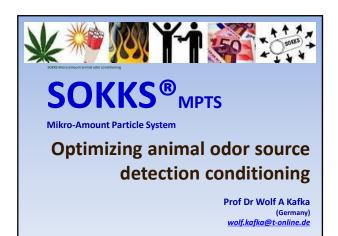
Prof Dr Wolf A Kafka<sup>1</sup>
Johannishöhe 9
D-82288 Kottgeisering (Germany)

wolf.kafka@t-online.de

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Prof Dr Wolf A Kafka (20.11.1939 in Wasserburg/Inn) was heading the physical and neuro-physiological research at the Max-Planck-Institute for behavior-physiology since more than 30 years. His research concerned the molecular basis and the industrial application of the physiology of odor reception and its discrimination. Numerous international developments, patents, and prizewinning documentations are based on his performances. He is member of several international renowned scientific societies, member at the Peking University, Beijing in China. Since 2012 he is elected chairperson of the advisory members of the Centro di Science (CSC) Comportamentali del cane dell'Universita degli Studi di Padova.

Prof Dr Wolf A Kafka (Germany) wolf.kafka@t-online.de



Some common statements on odor and odor-source detection in before

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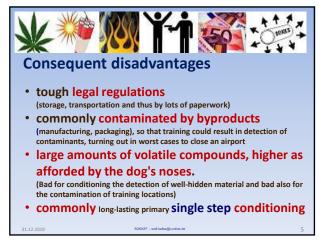
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3. SOKKS\* mediated odor source detection conditioning:

Traditional odor conditioning:

Basic problems:
drugs (narcotics)
explosives
arsons
infective (e.g. corps) materials
are
hazardous
for
human, animal, and environmental
well-being



What is SOKKS<sup>©</sup>?

SOKKS<sup>©</sup> is a training aid to identify volatile compounds and localize their sources

It relieves from the afore problems
Its name derives from the first letters of the assisting persons

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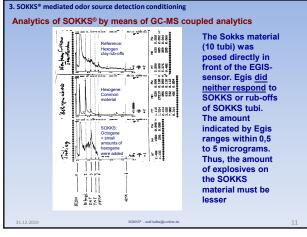


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For a better understanding of SOKKS® Micro particle conditioning following tops will be discussed:

odor sources and odor convection
odor perception
odor discrimination
odor-source detection and conditioning

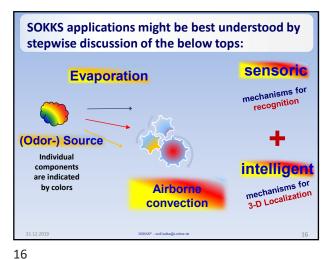
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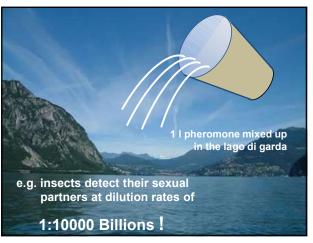
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Animals, especially canines as detectors Their olfactory systems surpass any technical device on base of: extreme sensitivity pheromones are detected at levels of one molecule per primary receptor sense cell (dilution rates 1:10000 Billions!) extreme selectivity any molecular variation induces different receptor responses · intelligent 3D-scanning regulation mechanisms up to now there is no equivalent technical solution available extreme speed of transduction milli-seconds (physico-chemical solutions would last up to hours!) · suitability for odor conditioning



### **Animals** as odor source detectors e.g. insects, birds, rats, dogs Game and prey behavior create a better relationship between instructor and his dog than, for example, food reward, in rats or insects

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Topics of the presentation: 1. Odor sources: definition and principles of its detection 2. Chemical senses: sensitivity, selectivity, discrimination, detection 3. Conditioning problems: SOKKS<sup>©</sup> optimized odor- and odor source detection conditioning 4. Summary

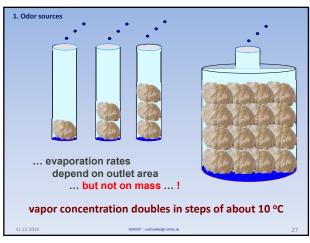
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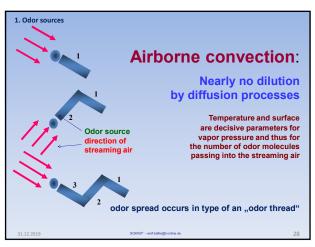
# Scientific background of odor identification and accordingly optimized animal odor source detection conditioning mediated by SOKKS<sup>©</sup> training aids Prof Dr Wolf A Kafka (Germany) wolf.kafka@t-online.de

1. Odor sources:
definition and principles of its detection
2. Chemical senses:
sensitivity, selectivity, discrimination, detection
3. Conditioning problems: SOKKS® optimized odor- and odor source detection conditioning
4. Summary

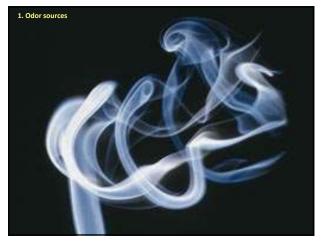


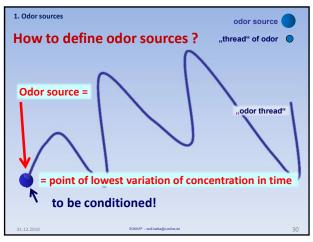
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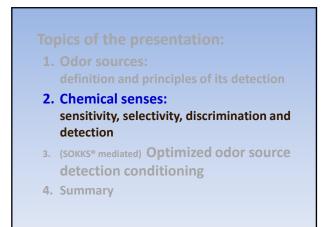
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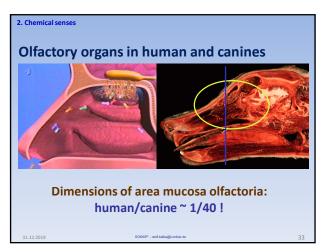




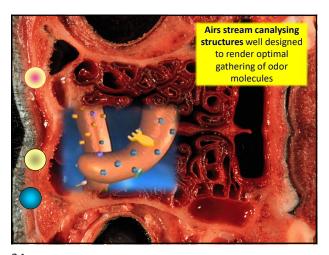
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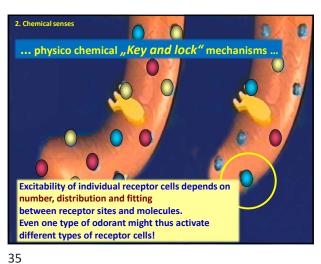
Prof Dr Wolf A Kafka (Germany) wolf.kafka@t-online.de



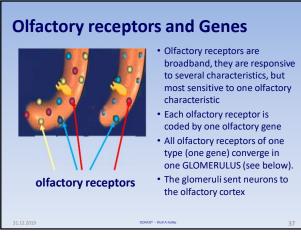


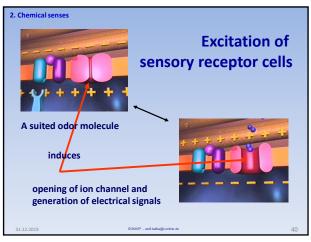
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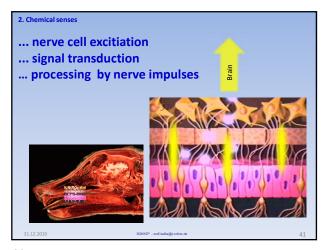


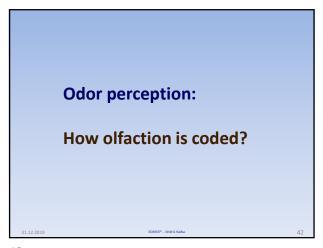


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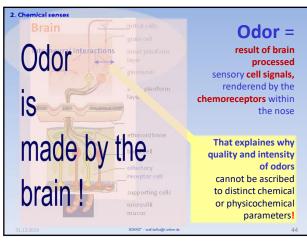
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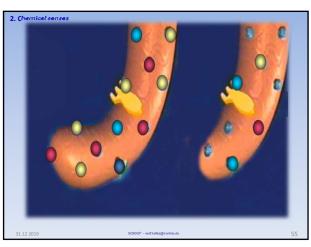
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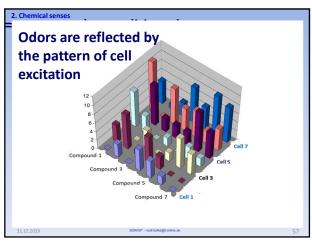


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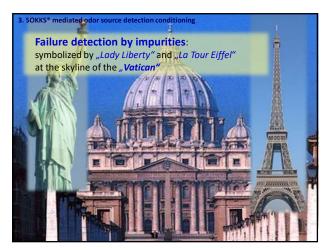
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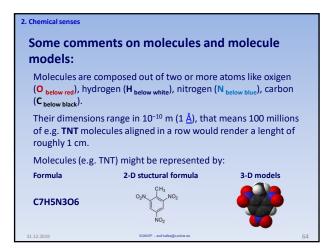




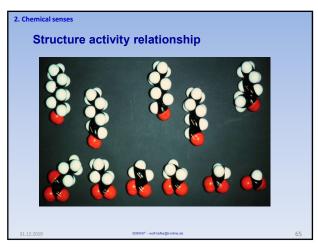
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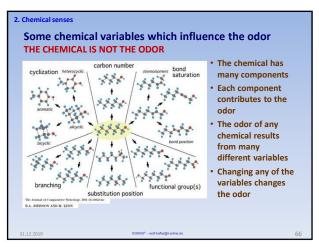
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Note:

Avoid any conditioning by applying pseudos!
For example:
Even if a pseudo compound might smell like an explosive it must not be explosive. A dog trained by pseudos might cause an airport closure!!!
Always use the odorant deriving from the active ingredients e.g. TNT, Hexogen, ...
Phlegmatics do not belong to active ingreditents

Topics of the presentation:

1. Odor sources:
 definition and principles of its detection

2. Chemical senses:
 sensitivity, selectivity, discrimination and detection

3. SOKKS®-mediated odor source detection conditioning

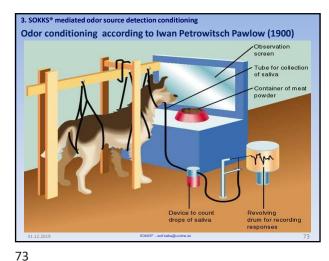
4. Summary

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# Scientific background of odor identification and accordingly optimized animal odor source detection conditioning mediated by SOKKS<sup>©</sup> training aids Prof Dr Wolf A Kafka (Germany) wolf.kafka@t-online.de





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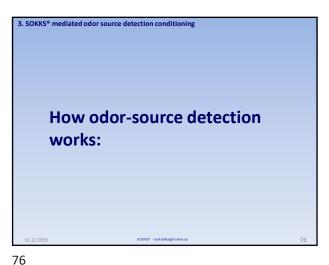
In addition to Pawlow:

SOKKS conditioning it is not only intended to

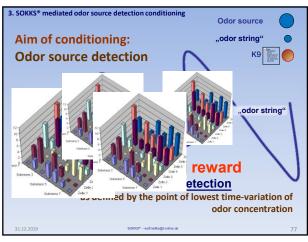
1. recognize the odor
but also to

2. detect the odor source

= point of
lowest time-variation of odor
concentration



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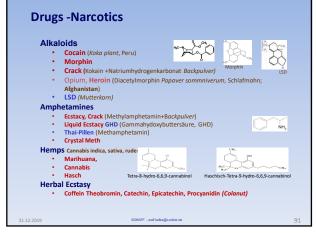
In detail these are:

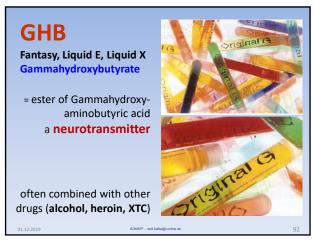
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Trade name	Chemical nomenclature	Molecules *1010/cm3	formula
Ammongelit	Ammoniumnitrat + Nitroglycol	70000000	NH <sub>4</sub> NO <sub>2</sub> + CsH <sub>4</sub> N <sub>2</sub> O <sub>6</sub>
Ammonsalpeter	Ammoniumnitrat	70000000	NH <sub>4</sub> NO <sub>3</sub>
Hexogen (RDX)	Cyclotrimethylen-trinitramin	40	$C_3H_6N_6O_6$
Kaliumchlorat	Kaliumchlorat	100000	KCIO <sub>3</sub>
Kalisalpeter	Kaliumnitrat	10000	KNO <sub>3</sub>
Natriumchlorat	Sodium Chlorat	100000	NaClO <sub>3</sub>
Nitroglycerin	Trinitroglycerin	70000000	C <sub>3</sub> H <sub>5</sub> N <sub>3</sub> O <sub>9</sub>
Nitropenta (PETN)	Pentaerythritol tetranitrat	100	C <sub>5</sub> H <sub>8</sub> N <sub>4</sub> O <sub>12</sub>
Nitrozellulose (NC)		30	
Oktogen	Cyclotetramethylentetranitramin HMX	1	C <sub>4</sub> H <sub>8</sub> N <sub>8</sub> O <sub>8</sub>
Blackpowder	Kaliumnitrat + Schwefel + Holzkohle	10000	KNO <sub>2</sub> +S + C
Treibladungspulver	Nitrozellulose + -glycerin + -guanidin	400000	
Trinitrotoluol (TNT)	2,4,6-Trinitrotoluol	60000	CH <sub>7</sub> H <sub>5</sub> N <sub>3</sub> O <sub>6</sub>
Services Dr Hof (N=2,686*10 <sup>25</sup> /	lecules*10 <sup>10</sup> /cm³ ppm-value fmann, Schramberg) due to o (m³). e.g. 1 Molecule Octogo rial is nearly 10000 times le	calculations via Lo en in 10 <sup>9</sup> Molecul	schmidt-Konstar
•	dog would thus detect a dil		- 4013 h

**Arsons - Fire Accelerators** BLKA - 29.04.98 (numbers represent vapor pressure) 1.1 Ethanol 1.2 i-Propanol 2.1 Acetone 2.2 Methylethylketone (MEK) 80 Ethylacetate 3.1 77 3.2 n-Butylacetate 127 4.1 n-Butylglykol 171 5.1 n-Hexene 69 Cyclohexene 80 5.3 Toluene 110 5.4 Xylol-mixture 140 petrol 40-200 candleliaht oil 130-280 gas oil 160-360

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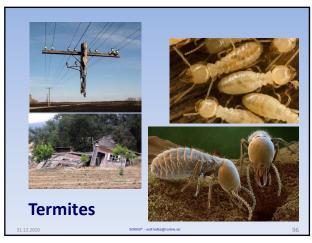
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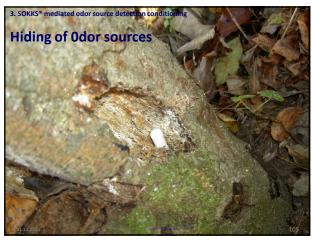


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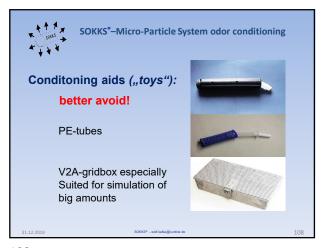
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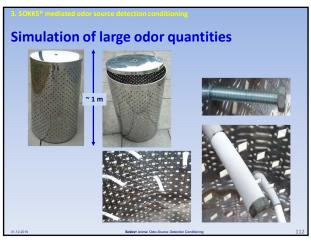
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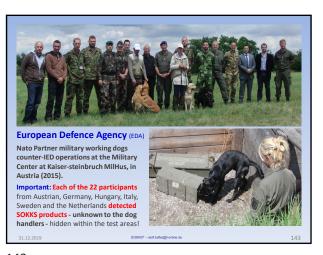
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#### Scientific background of odor source detetion

- sensitivity, selectivity, discrimination
- 3. SOKKS® mediated odor source detection conditioning
- 4. Summary

**SOKKS**<sup>®</sup> conditioning material is distinguished by: extremely low concentration (leading contaminations even below or near olfactory threshold),

- extremely low contaminance (no wasting of training
- extremely high purity (reducing misconditioning),
- tooth friendly, olfactory inert odor carriers,
- extremely high chemical stability (reference material, valid for >3 years),
- no handling regulation (no problems when lost, important for regular efficiency controls)
- · time saving multicomponent conditioning.

Complete basic conditioning may be achieved within 3 days

145 147

# Scientific background of odor identification and accordingly optimized animal odor source detection conditioning mediated by SOKKS<sup>©</sup> training aids Prof Dr Wolf A Kafka (Germany) wolf.kafka@t-online.de





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# SOKKS®- MPTS

#### **SOKKS®EXPLOSIVES**

**SOKKS®** 

**SOKKS**© **EXPLOSIVES** will condition the dog to detect even the smallest amount of explosive, either military, commercial or home made

**EXPLOSIVES** 

**SOKKS®DRUGS** 

**SOKKS®** 

**SOKKS**®**DRUGS** will assist you to train your canine to detect even the smallest amount of the most commonly used and abused drugs

Drugs

SOKKS® PC/Cadaver

**SOKKS®** 

**SOKKS® PC/Cadaver** will assist you to train your canine to detect both deceased and live humans and human only blood. NOT animals.

**PC/Cadaver** 

SOKKS® Fire/Arson

**SOKKS**®

**SOKKS**® *Fire/Arson* will assist you to train your canine to detect all accelerants. It has been proven extensively in Germany.

Fire/Arson

SOKKS® cell-phone

**SOKKS®** 

**SOKKS**<sup>®</sup> *cell-phone* will assist you to train your canine to detect the most commonly used mobile cell-phones (esp. in prisons!).

**Cell-phone** 

SOKKS® Cites

**SOKKS**®

**SOKKS®** Cites is a series of products to detect species protected animals or parts of them (e.g. Ivory, Rhinoceros, Reptilia, Parrots, Birds of prey, and combinations thereof).

Cites

SOKKS® Bedbugs/Cimex

Cimex L.

**SOKKS**® **Bedbugs/Cimex.** *l* is a great product, pure odor like all our products. A simple easy way to train your detection dogs with handling Bed Bugs.

**SOKKS**<sup>©</sup>

**SOKKS®** *myces* is a pure odor like all, without spores and thus cannot cause any further mold to spread

**Myces Mold** 

**SOKKS**<sup>®</sup> is PURE odor product and **NOT Pseudo!** 

**SOKKS**<sup>®</sup> is available to Specialist Government Security, Military, Police, Search and Rescue and Emergency Dog Trainers and Government training providers

#### **SOKKS® -EXPLOSIVES**

**SOKKS**<sup>®</sup> -**EXPLOSIVES** will condition the dog to detect even the smallest amount of explosive, either military, commercial or home-made including SEMTEX, HMTD and TATP. Dogs trained with **SOKKS**<sup>®</sup> -**EXPLOSIVES** can find explosives that elude even the most advanced detection equipment that is currently in use at many airports. **SOKKS**<sup>®</sup> -**EXPLOSIVES** trained dogs have been tested on and have detected:

- Ammonia-Gel
- Ammonia-Nitrate
- Hexogen (RDX)
- Potassium Chlorate
- Potassium Nitrate
- Sodium Chlorate
- Nitro-glycerine
- Nitro-Cellulose
- TNT
- All Dynamites
- Water Gels
- Oktogen (HMX)
- Smokeless Powder
- Black Powder
- Gun Powder
- Chlorates
- Nitropenta (PETN)
- TATP
- HMTD
- TAPD

**SOKKS®** -**EXPLOSIVES** first entered service with the Bavarian State Police in Munich and Nuremburg, Germany and has since become the standard in detector dog training for worldwide police and military forces. Using SOKKS® you will not need licenses, bunkers, special containers and vehicles for the possession, transportation, and storage of explosives. Due to its unique manufacturing, SOKKS® Explosives is completely harmless and can be carried in the field by each handler and simply stored in the office. You can train anywhere, anytime since there is absolutely no risk of fire or explosion. Even a lost training aid is useless to anyone that finds it as it is impossible to reverse the process and extract the explosives molecules

#### NEVER EXPOSE A SOKKS® TRAINED CANINES TO PSEUDO

"Real", or conventional training aids, can be used for certification purposes only. If the SOKKS® canine is repeatedly exposed to pseudo training aids, the dog will become conditioned to locate the inherent contaminants in these aids.

#### **SOKKS®** Drugs

**SOKKS**® Drugs will assist you to train your canine to detect even the smallest amount of the most commonly used and abused drugs. Trained with SOKKS-MPTS<sup>TM</sup> Drugs your dog will be able to detect all the following drugs:

- Cocaine (Koka, Peru)
- Morphin
- Crack (Kokain +Natriumhydrogenkarbonat Backpulver)
- Opium, Heroin (Diacetylmorphin Papaver sommniverum, Schlafmohn; Afghanistan)
- LSD (Mutterkorn) Yes
- Amphetamines
- Ecstacy, Crack (Methylamphetamin+Backpulver)
- Liquid Ecstacy GHD (Gammahydoxybuttersäure, GHD)
- Thai-Pillen (Methamphetamin)
- Hemps Cannabis indica, sativa, ruderalis
- Marijuana,
- Cannabis
- Hash
- Ecstasy Coffein Theobromin, Catechin, Epicatechin, Procyanidin (Colanut)

**SOKKS**<sup>®</sup> Drugs is completely harmless and requires no special handling, storage or requirements, you just need to be careful about cross-contamination as you would with any training scent. You can carry this training aid safely on you and train anywhere anytime, without leaving residual odor. **SOKKS**<sup>®</sup> Drugs can be planted and left in place without posting a guard, as it is completely safe to handle and poses no risk in case of accidental ingestion. **SOKKS**<sup>®</sup> Drugs contains the equivalent of one gram of drugs dissolved in 80 million gallons of water. In these minute concentrations, the drug loses all its pharmaceutical characteristics, yet it still exudes sufficient odor for canine detection training.

**SOKKS**<sup>®</sup> Drugs follows the same principle as the explosives system, with one exception. Whilst target odor is presented in its pure form, this system combines several odors in one training aid. Extensive research has shown that training the dog on all target odors each time is beneficial to the overall ability of the dog. This "combined" method of training has become the standard of all police, military stations and airports in Germany.

**SOKKS**<sup>®</sup> Drugs is completely harmless and requires no special handling or storage apart from the normal cross-contamination considerations. You can carry the training aids in the field and any time your schedule allows, without leaving residual odor (especially important when asking members of the public to carry a training aid). **SOKKS**<sup>®</sup> Drugs can be planted and left in place without posting a guard as it is completely safe to handle and poses no risk in case of accidental ingestion.

**SOKKS**® Drugs is NOT PSEUDO! It is PURE ODOR in minute quantities. Your dog will still detect larger quantities, only now he will be surer and faster in his response with increased drive and desire.

#### NEVER EXPOSE A SOKKS® TRAINED CANINES TO PSEUDO

"Real", or conventional training aids, can be used for certification purposes only. If the **SOKKS**® canine is repeatedly exposed to pseudo training aids, the dog will become conditioned to locate the inherent contaminants in these aids.

#### **SOKKS® -ACCELERANT**

**SOKKS**<sup>®</sup> Accelerant will assist you to train your canine to detect all accelerants.

It has been proven extensively in Germany and the results can be verified. If you fire investigation unit is considering deploying a canine as part of the investigation team we recommend **SOKKS**® Accelerant as the ideal conditioner

- 1.1 Ethanol 78
- 1.2 i-Propanol 82
- 2.1 Acetone 56
- 2.2 Methylethylketone (MEK) 80
- 3.1 Ethylacetate 77
- 3.2 n-Butylacetate 127
- 4.1 n-Butylglykol 171
- 5.1 n-Hexene 69
- 5.2 Cyclohexene 80
- 5.3 Toluene 110
- 5.4 Xylol-mixture 140
- 6.1 Petrol 40-200
- 6.2 Candlelight oil 130-280
- 6.3 Gas oil 160-360
- 6.4 Spiritus 78

(numbers represent vapor pressure)

#### **SOKKS® PC/CADAVER**

**SOKKS**® **PC/CADAVER** will assist you to train your canine to detect both deceased and live humans and human only blood. NOT animals. SOKKS®-Cadaver is REAL odor and will enable the dogs to detect humans at all stages of decomposition. The dogs already trained using the **SOKKS**® have had proven and verifiable results in both land and water searches. No longer worry about messy training aids. Join the future in detection dog conditioning by implementing **SOKKS® PC/CADAVER** into your training inventory

### Lost persons, corps and parts of it compose of highly complex and merely analysed mixtures

According to continous decomposition corps, or parts of, do not render valid conditioning material!

SOKKS® studies have shown that characteristic human vapors are released at the very end of life. Stable over many years!

Extremely valuable as stable reference conditioning material to detect, not only corps, but alive persons.

#### **SOKKS® PM & PAPER MONEY**

**SOKKS® PM & PAPER MONEY** will assist you to train your canine to detect Euro Currency.

The ability in the dog trained on SOKKS® to find currency disguised and/or hidden is greatly improved. This is because SOKKS® trained dogs have a clear olfactory picture of their target.

It is very easy to cross train your dog for example to detect drugs and currency using the SOKKS® Micro Particle Training System as the scent pictures conditioned in the dog are clear and precise

#### **SOKKS®** Myces Schimmelpilz (Mold)

Is a pure odor like all, without spores and thus cannot cause any further spread of mold

#### **SOKKS®** cell-phone

The ability in the dog trained on SOKKS® to detect mobile cell-phones disguised and/or hidden is of great interest in e.g. prisons, especially since it is- contrary to electronic sensors - valid to detect cell-phones in off-mode.

#### SOKKS® Bedbugs/Cimex. l

**SOKKS**® **Bedbugs/Cimex.** I is a great product, pure odor like all our products. A simple easy way to train your detection dogs with handling Bed Bugs.

Again, like all **SOKKS**<sup>®</sup> products this enables the training of your dog to be easy and without contamination.

#### **SOKKS®** Cites (Species protection)

**SOKKS**<sup>®</sup> **Cites** is a series of products to detect species protected animals or parts of it (e.g. ivory, rhinoceros, reptilia, parrots, birds of prey, and combinations thereof). Its development was supported by ZOO Vienna (Austria).

Please contact us for your special demand.

#### OTHER SOKKS® ODORS

Please contact us if you require a specific odor (odor). If it has an odor, we can develop a product for your detection dog team.

All **SOKKS**<sup>®</sup> products are harmless and safe to use.

#### **SOKKS**<sup>®</sup> – Micro Particle Training Systems

# FAQ's

#### Can a SOKKS<sup>®</sup> dog still find large amounts of explosives and drugs? Why is that possible?

**SOKKS**® dogs will find large quantities. Currently the largest find for an explosive K-9 trained on **SOKKS**® is over 500 pounds and up to 15 pounds of drugs. The reason is that the **SOKKS**® K-9 is trained to prosecute isolated molecules of the target odor, not the entire molecular scent spectrum of each individual explosive or drug. That means that even when there is a total presence of hundreds of pounds of substance, the actual portion of the target that exudes the PURE odor is usually less than half of the total substance. Since we are no longer forcing the K-9 to find all the odors of the target substance (including contaminants) the large quantity question becomes much less difficult to train for. **SOKKS**® K-9's can be exposed to large quantities if you have the opportunity to do so.

#### Is this another form of Pseudo?

**SOKKS**<sup>®</sup> is not pseudo. It contains minute amounts of the molecules that make up the target odor. This eliminates as many contaminants as science allows. Pseudo substances are chemically related to the odors of the drugs and explosives, but they are not identical. **SOKKS**<sup>®</sup> uses only the actual odor of the drugs and explosives.

#### How many different odors are there?

There is only one odor for each family of detector dog. All drug training aids are exactly identical as are all of the explosive training aids. This means your K-9 is trained on identical odors each time the dog is exposed to **SOKKS**<sup>®</sup>. This is possible due to the scientific research done by Prof. Dr. Wolf A. Kafka.

#### What odors is the dog trained to detect?

**SOKKS**<sup>®</sup>-Drugs will condition the dog to find:

- Cocaine and Crack Cocaine
- Heroin
- Morphine and Opium Derivatives
- Hashish and Marijuana
- Amphetamine based drugs, such as LSD and Ecstasy
- Meth- and Crystalmethamphetamine

**SOKKS**<sup>®</sup>-Explosives will condition the K-9 to find military and commercial explosives. Dogs have been tested on:

- Ammonia-Gel
- Ammonia-Nitrate
- Hexogen (RDX)
- TNT
- All Dynamites
- Various Watergels
- Oktogen (HMX)
- Smokeless Powder
- Blackpowder
- Various Chlorates
- Nitropenta (PETN)
- Nitro-Cellulose (NC)
- Handgrenades, weapons, artillery shells, etc.
- and many more.

#### Is it hard to order training aids?

Absolutely not. All you need to do is mail an order on department letter head. Your letter needs to be signed by a supervisor and include your department address and telephone number. Once your check is received, we will send by DHL the training aids to your department.

#### What are the storage requirements? Do I need a safe or a bunker?

If you have a dark and cool place, you can store **SOKKS**<sup>®</sup> Training aids should be stored in the original container in a dark, cool place. **SOKKS**<sup>®</sup> should not be frozen, nor should it be exposed to bright light and high temperatures for long periods of time.

#### But what about the DEA and ATF regulations?

The **SOKKS**® system will be exempt from all DEA and ATF regulations for training aids. That means no investigations in case of loss, no logs to keep, no need to weigh training aids, no safes or bunkers, and no need for armed guards. No other real odor training system enjoys these exemptions.

#### What if my dog swallows a training aid? Do I need to carry the antidotes?

**SOKKS**<sup>®</sup> is completely non-toxic. It is absolutely safe for both the handler and the dog. If your dog swallows a training aid, he is still in some danger of intestinal injury and should be seen by a veterinarian.

#### How long do the training aids last?

Each dog team will have forty training aids per year. Each aid can be used up to twenty times, allowing you to do up to 800 trials per year. Once a training aid has been used twenty times, it is replaced with a new aid. All used aids are shipped back to K-9 TSI at the end of the year for recycling. Having this many training aids per dog allows you to

take obviously contaminated training aids out of service immediately and still be able to train without having to wait weeks for a replacement.

#### What is the cost for SOKKS®? What about technical support?

**SOKKS**<sup>®</sup> is the cheapest method for training detector dogs on the market. The sets include all the material to allow you to start training within one hour of receiving your aids. **SOKKS**<sup>®</sup> does not require you to change the manner in which you train the K-9, it merely replaces the training aids. Detailed, easy to understand, user instructions are included with each set.

#### What about legal issues? Will this be acceptable in court?

**SOKKS**<sup>®</sup> K-9's are trained on pure odor. We believe that in short order judicial notice will be taken of **SOKKS**<sup>®</sup>. Each dog can still be certified using current state standards by using conventional training aids. However, since **SOKKS**<sup>®</sup> uses the PURE ODOR of the REAL DRUG all current court decisions regarding the validity of training with real substances still apply.

#### Can I still train with conventional "real" training aids or pseudo?

**NEVER EXPOSE A SOKKS**<sup>®</sup> **TRAINED K-9 TO PSEUDO.** "Real", or conventional training aids, can be used for certification purposes only. If the **SOKKS**<sup>®</sup> K-9 is repeatedly exposed to these old training aids, the dog will become conditioned to locate the inherent contaminants in these aids. There is no need for handlers to even have access to old training aids except for annual certification trials.

**SOKKS®** is not a guarantee that your K-9 will be successful. A carefully selected K9 and the proper application of the principles of conditioning are more influential on the learning process than the training aid. If properly trained a **SOKKS®** K-9 will become a true asset to your department.

For any further requests please contact:

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