National Animal Supplement Council
PO Box 5168
Sun City West, AZ 85376
T: 760-751-3360

NASC INGREDIENT RISK REPORT

REPORT DATA GENERATED ON: 07/08/2019 08:22 PM

INGREDIENT INFORMATION

Ingredient Name:	Hemp & Hemp-derived Compounds
No of NASC Registered Products with this ingredient:	209
Years Ingredient on the Market:	10 Year(s)

USAGE INFORMATION

In Dogs:

Minimum Usage:	0.13 mg/kg
Maximum Usage:	87.68 mg/kg
Straight Mean Usage:	16.59 mg/kg
Weighted Mean:	12.83 mg/kg

In Horses:

Minimum Usage:	0.17 mg/kg
Maximum Usage:	147.05 mg/kg
Straight Mean Usage:	46.23 mg/kg
Weighted Mean:	38.36 mg/kg

In Cats:

Minimum Usage	0.38 mg/kg
Maximum Usage:	163.69 mg/kg
Straight Mean Usage:	39.18 mg/kg
Weighted Mean:	44.92 mg/kg

In Others:

Minimum Usage:	
Maximum Usage:	
Straight Mean Usage:	
Weighted Mean:	

National Animal Supplement Council
PO Box 5168
Sun City West, AZ 85376
T: 760-751-3360

NASC INGREDIENT RISK REPORT

INGREDIENT NAME: Hemp & Hemp-derived Compounds
REPORT DATA GENERATED ON: 07/08/2019 08:22 PM

AEs AND ADMINISTRATIONS

In Dogs:

Year	Adverse Events Reported	Report Rate Per Million Administrations Sold	Serious Adverse Events Reported	Report Rate Per Serious AE Per Million	Administrations Sold **
2010	0	0.00	0	0.00	25,016
2011	0	0.00	0	0.00	29,098
2012	0	0.00	0	0.00	104,421
2013	2	14.31	0	0.00	139,776
2014	0	0.00	0	0.00	259,851
2015	0	0.00	0	0.00	548,085
2016	0	0.00	0	0.00	1,224,757
2017	1	0.19	0	0.00	5,229,795
2018	2	0.15	0	0.00	13,174,079
2019	1	0.13	0	0.00	7,613,183
Grand Total	6	0.21	0	0.00	28,348,062

*** The requirement for NASC members to enter AE reports began Q3 of 2003. Some companies were recording AEs prior to that time, and that data is displayed. NASC did not require reporting the number of administrations sold until Q3 2003, so data prior to that time is likely understated. Since we cannot be sure that the data prior to Q3 2003 is complete, we do not report AE Incidence prior to that time. Please direct questions about the NAERS system and the methodology to: Bill Bookout at NASC, 760-751-3360.**

**** Administrations sold is believed to be a close approximation to administrations consumed. Unlike human medicines, supplement bottles are generally consumed in their entirety, unless there is an adverse reaction, the animal starts refusing it, or the animal dies. The administrations sold data does include increased amounts of product carried in the distribution channel. However, with increasingly efficient supply chain management, it is believed that changes in the total product in the channel is a negligible factor over time.**

National Animal Supplement Council
PO Box 5168
Sun City West, AZ 85376
T: 760-751-3360

NASC INGREDIENT RISK REPORT

INGREDIENT NAME: Hemp & Hemp-derived Compounds
REPORT DATA GENERATED ON: 07/08/2019 08:22 PM

In Horses:

Year	Adverse Events Reported	Report Rate Per Million Administrations Sold	Serious Adverse Events Reported	Report Rate Per Serious AE Per Million	Administrations Sold **
2011	0	0.00	0	0.00	41,460
2012	0	0.00	0	0.00	79,370
2013	0	0.00	0	0.00	59,090
2014	0	0.00	0	0.00	45,600
2015	0	0.00	0	0.00	45,600
2016	0	0.00	0	0.00	42,100
2017	0	0.00	0	0.00	61,420
2018	2	13.08	0	0.00	152,864
2019	1	2.35	0	0.00	424,939
Grand Total	3	3.15	0	0.00	952,443

*** The requirement for NASC members to enter AE reports began Q3 of 2003. Some companies were recording AEs prior to that time, and that data is displayed. NASC did not require reporting the number of administrations sold until Q3 2003, so data prior to that time is likely understated. Since we cannot be sure that the data prior to Q3 2003 is complete, we do not report AE Incidence prior to that time. Please direct questions about the NAERS system and the methodology to: Bill Bookout at NASC, 760-751-3360.**

**** Administrations sold is believed to be a close approximation to administrations consumed. Unlike human medicines, supplement bottles are generally consumed in their entirety, unless there is an adverse reaction, the animal starts refusing it, or the animal dies. The administrations sold data does include increased amounts of product carried in the distribution channel. However, with increasingly efficient supply chain management, it is believed that changes in the total product in the channel is a negligible factor over time.**

National Animal Supplement Council
PO Box 5168
Sun City West, AZ 85376
T: 760-751-3360

NASC INGREDIENT RISK REPORT

INGREDIENT NAME: Hemp & Hemp-derived Compounds
REPORT DATA GENERATED ON: 07/08/2019 08:22 PM

In Cats:

Year	Adverse Events Reported	Report Rate Per Million Administrations Sold	Serious Adverse Events Reported	Report Rate Per Serious AE Per Million	Administrations Sold **
2012	0	0.00	0	0.00	16,560
2013	0	0.00	0	0.00	21,600
2014	0	0.00	0	0.00	27,000
2015	0	0.00	0	0.00	45,390
2016	0	0.00	0	0.00	104,610
2017	0	0.00	0	0.00	365,366
2018	0	0.00	0	0.00	2,116,820
2019	1	0.51	0	0.00	1,962,883
Grand Total	1	0.21	0	0.00	4,660,228

*** The requirement for NASC members to enter AE reports began Q3 of 2003. Some companies were recording AEs prior to that time, and that data is displayed. NASC did not require reporting the number of administrations sold until Q3 2003, so data prior to that time is likely understated. Since we cannot be sure that the data prior to Q3 2003 is complete, we do not report AE Incidence prior to that time. Please direct questions about the NAERS system and the methodology to: Bill Bookout at NASC, 760-751-3360.**

**** Administrations sold is believed to be a close approximation to administrations consumed. Unlike human medicines, supplement bottles are generally consumed in their entirety, unless there is an adverse reaction, the animal starts refusing it, or the animal dies. The administrations sold data does include increased amounts of product carried in the distribution channel. However, with increasingly efficient supply chain management, it is believed that changes in the total product in the channel is a negligible factor over time.**

National Animal Supplement Council
PO Box 5168
Sun City West, AZ 85376
T: 760-751-3360

NASC INGREDIENT RISK REPORT

INGREDIENT NAME: Hemp & Hemp-derived Compounds
REPORT DATA GENERATED ON: 07/08/2019 08:22 PM

Total:

Year	Adverse Events Reported	Report Rate Per Million Administrations Sold	Serious Adverse Events Reported	Report Rate Per Serious AE Per Million	Administrations Sold **
2010	0	0.00	0	0.00	25,016
2011	0	0.00	0	0.00	70,558
2012	0	0.00	0	0.00	200,351
2013	2	9.07	0	0.00	220,466
2014	0	0.00	0	0.00	332,451
2015	0	0.00	0	0.00	639,075
2016	0	0.00	0	0.00	1,371,467
2017	1	0.18	0	0.00	5,656,582
2018	4	0.26	0	0.00	15,443,763
2019	3	0.30	0	0.00	10,001,005
Grand Total	10	0.29	0	0.00	33,960,734

*** The requirement for NASC members to enter AE reports began Q3 of 2003. Some companies were recording AEs prior to that time, and that data is displayed. NASC did not require reporting the number of administrations sold until Q3 2003, so data prior to that time is likely understated. Since we cannot be sure that the data prior to Q3 2003 is complete, we do not report AE Incidence prior to that time. Please direct questions about the NAERS system and the methodology to: Bill Bookout at NASC, 760-751-3360.**

**** Administrations sold is believed to be a close approximation to administrations consumed. Unlike human medicines, supplement bottles are generally consumed in their entirety, unless there is an adverse reaction, the animal starts refusing it, or the animal dies. The administrations sold data does include increased amounts of product carried in the distribution channel. However, with increasingly efficient supply chain management, it is believed that changes in the total product in the channel is a negligible factor over time.**

Adverse Event: "An Adverse Event is a type of Complaint where a patient has suffered any negative physical effect or health problem that MAY be connected to or associate with use of the product."
Serious Adverse Event: "An Adverse Event with a transient incapacitating effect (i.e. rendering the animal unable to function normally for even a short period of time, such as with a seizure) or non-transient (i.e. permanent) health effect. Transient vomiting or diarrhea do not constitute Serious Adverse Events. A purported Serious Adverse Event requires follow-up with a veterinarian. A layperson diagnosis does not constitute a Serious Adverse Event."