

SECTION 1 - Chemical Product & Company Identification

Product Name SILVER BULLETS™ BIO

Product Number HR2-088

Company Hampton Research

Street Address 34 Journey

City, State, Zip, Country Aliso Viejo, CA 92656, USA

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SECTION 2 - Composition / Information on Ingredient

Substance Name	%	CAS #	SARA	RTECS	LD50
(±)-Epinephrine	<1	329-65-7	no	DO2975000	n/a
1,2,3-Heptanetriol	<1	103404-57-5	no	n/a	n/a
1,4-Diaminobutane	<1	110-60-1	no	EJ6800000	463 mg/kg
2,3-Pyridinedicarboxylic acid	<1	89-00-9	no	US7967250	n/a
2'-Deoxyadenosine 5'-monophosphate	<1	653-63-4	no	n/a	n/a
2'-Deoxyadenosine 5'-triphosphate disodium salt	<1	1927-31-7	no	AU7358800	n/a
2'-Deoxyadenosine monohydrate	<1	16373-93-6	no	AU7358600	n/a
2'-Deoxycytidine 5'-monophosphate sodium salt	<1	13085-50-2	no	n/a	n/a
2'-Deoxycytidine 5'-triphosphate disodium salt	<1	102783-51-7	yes	n/a	n/a
2'-Deoxyguanosine 5'-monophosphate sodium salt hydrate	<1	n/a	no	n/a	n/a
2'-Deoxyguanosine hydrate	<1	961-07-9	no	MF8760000	n/a
2-Nitrophenyl β-D-galactopyranoside	<1	369-07-3	no	n/a	n/a
4-Aminobenzoic acid	<1	150-13-0	no	DG1400000	6000 mg/kg
4-Hydroxy-L-proline	<1	51-35-4	no	TW3586500	n/a
5-Phospho-D-ribose 1-diphosphate pentasodium salt	<1	108321-05-7	yes	n/a	n/a
6-Phosphogluconic acid trisodium salt	<1	53411-70-4	no	n/a	n/a
Acarbose	<1	56180-94-0	no	LZ7153000	24000 mg/kg
Acetyl coenzyme A sodium salt	<1	102029-73-2	yes	n/a	n/a
Acetylcholine chloride	<1	60-31-1	no	FZ9800000	2500 mg/kg
Acetylsalicylic acid	<1	50-78-2	no	VO0700000	3500 mg/kg
Adenosine	<1	58-61-7	no	AU7175000	20000 mg/kg
Adenosine 3',5'-cyclic monophosphate sodium salt monohydrate	<1	37839-81-9	no	AU7357900	14300 mg/kg

(CONTINUED) - SECTION 2 - Composition / Information on Ingredient

Substance Name	%	CAS #	SARA	RTECS	LD50
Adenosine 5'-(β,γ -imido)triphosphate tetralithium salt hydrate	<1	72957-42-7	no	n/a	n/a
Adenosine 5'-diphosphate sodium salt	<1	20398-34-9	yes	n/a	n/a
Adenosine 5'-diphosphoribose sodium salt	<1	68414-18-6	no	n/a	n/a
Adenosine 5'-monophosphate sodium salt	<1	149022-20-8	no	n/a	n/a
Adenosine 5'-triphosphate disodium salt hydrate	<1	987-65-5	yes	n/a	n/a
Adenosine-5'-diphosphoglucose disodium salt	<1	102129-65-7	no	n/a	n/a
Ala-Ala	<1	1948-31-8	no	n/a	n/a
Ala-Ala-Ala	<1	5874-90-8	no	n/a	n/a
Ala-Leu	<1	3303-34-2	no	n/a	n/a
Argininosuccinic acid disodium salt hydrate	<1	918149-29-8	no	n/a	n/a
Aspartame	<1	22839-47-0	no	WM3407000	10000 mg/kg
Batyl alcohol	<1	544-62-7	no	TZ0960000	n/a
Benzamidine hydrochloride	<1	1670-14-0	no	CV6260000	n/a
Benzidine	<1	92-87-5	yes	DC9625000	309 mg/kg
Betaine anhydrous	<1	107-43-7	no	DS5900000	n/a
Biotin	<1	58-85-5	no	XJ9088200	n/a
Cadaverine	<1	462-94-2	no	SA0200000	n/a
Cadmium chloride hydrate	<1	654054-66-7	yes	n/a	n/a
Caffeine	<1	58-08-2	no	EV6475000	192 mg/kg
Calcium chloride dihydrate	<1	10035-04-8	no	EV9810000	n/a
Cholesterol	<1	57-88-5	no	FZ8400000	n/a
Cholic acid	<1	81-25-4	no	FZ9350000	4950 mg/kg
Choline base solution	<1	123-41-1	no	n/a	n/a
cis-Aconitic acid	<1	585-84-2	yes	n/a	n/a
Cobalt(II) chloride hexahydrate	<1	7791-13-1	yes	GG0200000	766 mg/kg
Coenzyme B12	<1	13870-90-1	no	GG3800000	5000 mg/kg
Copper(II) chloride dihydrate	<1	10125-13-0	yes	GL7030000	n/a
Coproporphyrin I dihydrochloride	<1	69477-27-6	no	n/a	n/a
Cortisone	<1	53-06-5	no	GM9020000	n/a
Creatine monohydrate	<1	6020-87-7	no	n/a	n/a
Creatine phosphate disodium salt tetrahydrate	<1	71519-72-7	no	n/a	n/a
Cystamine dihydrochloride	<1	56-17-7	no	KR7260000	896 mg/kg
Cystathionine	<1	535-34-2	no	n/a	n/a
Cytidine	<1	65-46-3	no	UW7370000	n/a
Cytidine 5'-diphosphate sodium salt hydrate	<1	34393-59-4	no	n/a	n/a
Cytidine 5'-diphosphocholine sodium salt dihydrate	<1	33818-15-4	no	n/a	n/a
Cytidine 5'-monophosphate disodium salt	<1	6757-06-8	no	n/a	n/a
Cytidine 5'-triphosphate disodium salt	<1	36051-68-0	no	n/a	n/a
Cytosine	<1	71-30-7	no	UW7350150	n/a
D-(+)-Cellobiose	<1	528-50-7	no	n/a	n/a
D-(+)-Fucose	<1	3615-37-0	no	n/a	n/a
D-(+)-Galactosamine hydrochloride	<1	1772-03-8	no	LW5500000	n/a

(CONTINUED) - SECTION 2 - Composition / Information on Ingredient

Substance Name	%	CAS #	SARA	RTECS	LD50
D-(+)-Galactose	<1	59-23-4	no	LW5490000	n/a
D-(+)-Glucosamine hydrochloride	<1	66-84-2	no	LZ6665000	15000 mg/kg
D-(+)-Glucose	<1	50-99-7	no	1724615	25800 mg/kg
D-(+)-Maltose monohydrate	<1	6363-53-7	no	n/a	n/a
D-(+)-Mannose	<1	3458-28-4	no	n/a	n/a
D-(+)-Melezitose hydrate	<1	207511-10-2	no	n/a	n/a
D-(+)-Melibiose monohydrate	<1	585-99-9	no	n/a	n/a
D-(+)-Raffinose pentahydrate	<1	17629-30-0	no	n/a	n/a
D-(+)-Trehalose dihydrate	<1	6138-23-4	no	n/a	4600 mg/kg
D(-)-3-Phosphoglyceric acid disodium salt	<1	80731-10-8	yes	n/a	n/a
D(-)-Ribose	<1	50-69-1	no	VJ2275000	n/a
D-Fructose 1,6-diphosphate trisodium salt octahydrate	<1	81028-91-3	no	n/a	n/a
D-Glucosamic acid	<1	3646-68-2	no	n/a	n/a
D-Glucosamine 6-phosphate sodium salt	<1	70442-23-8	no	n/a	n/a
D-Glucose 6-phosphate sodium salt	<1	54010-71-8	no	n/a	n/a
D-Glyceric acid calcium salt dihydrate	<1	14028-62-7	no	n/a	n/a
Disodium beta-Glycerophosphate tetrahydrate	<1	819-83-0	no	UA0600000	n/a
D-Lactose monohydrate	<1	64044-51-5	no	n/a	n/a
DL-Glyceraldehyde	<1	56-82-6	no	MA6475000	n/a
DL-Isocitric acid trisodium salt	<1	1637-73-6	no	n/a	n/a
DL-Xylose	<1	25990-60-7	no	n/a	n/a
DL- α -Lipoic acid	<1	1077-28-7	no	JP1192000	n/a
D-Mannosamine hydrochloride	<1	5505-63-5	no	n/a	n/a
D-Pantothenic acid hemicalcium salt	<1	137-08-6	no	RU4375000	10000 mg/kg
D-Sorbitol	<1	50-70-4	no	LZ4290000	15900 mg/kg
Ellipticine	<1	519-23-3	no	UU8825000	178 mg/kg
Ethanolamine	<1	141-43-5	no	KJ5775000	1720 mg/kg
Ethidium bromide	<1	1239-45-8	no	SF7950000	2177 mg/kg
Flavin adenine dinucleotide disodium salt hydrate	<1	84366-81-4	no	n/a	n/a
Folic acid	<1	59-30-3	no	LP5425000	10000 mg/kg
Fumaric acid	<1	110-17-8	no	LS9625000	9300 mg/kg
Gentamicin sulfate salt hydrate	<1	n/a	n/a	LY2625000	n/a
Gibberellin A ₃	<1	77-06-5	no	LY8990000	8500 mg/kg
Glutaric acid	<1	110-94-1	no	MA3740000	6000 mg/kg
Glycine	<1	56-40-6	no	MB7600000	7930 mg/kg
Gly-Gly-Gly	<1	556-33-2	no	n/a	n/a
Gly-Gly-Gly-Gly	<1	637-84-3	no	n/a	n/a
Gly-Gly-Gly-Gly-Gly	<1	7093-67-6	no	n/a	n/a
g-Strophanthin	<1	630-60-4	no	RN3675000	5 mg/kg
Guanidine hydrochloride	<1	50-01-1	no	MF4300000	571 mg/kg
Guanine	<1	73-40-5	no	MF8260000	n/a
Guanosine	<1	118-00-3	no	MF8750000	n/a
Guanosine 3',5'-cyclic monophosphate sodium salt	<1	40732-48-7	no	n/a	n/a
Guanosine 5'-diphosphate sodium salt	<1	43139-22-6	no	n/a	n/a

(CONTINUED) - SECTION 2 - Composition / Information on Ingredient

Substance Name	%	CAS #	SARA	RTECS	LD50
Guanosine 5'-triphosphate sodium salt hydrate	<1	36051-31-7	yes	n/a	n/a
Hemin	<1	16009-13-5	no	n/a	n/a
HEPES sodium	<1	75277-39-3	no	n/a	n/a
Histamine dihydrochloride	<1	56-92-8	no	MS1575000	2534 mg/kg
Hydrocortisone	<1	50-23-7	no	GM8925000	n/a
Inosine	<1	58-63-9	no	NM7460000	20000 mg/kg
Inosine 5'-monophosphate disodium salt	<1	352195-40-5	no	n/a	n/a
Inosine 5'-triphosphate trisodium salt	<1	35908-31-7	no	n/a	n/a
Isomaltose	<1	499-40-1	no	n/a	n/a
Isopropyl 1-thio-β-D-galactopyranoside	<1	367-93-1	no	n/a	n/a
Kanamycin monosulfate	<1	25389-94-0	no	NZ3225030	4000 mg/kg
L-(-)-Threonine	<1	72-19-5	no	XO8590000	n/a
L-(-)-Threonine	<1	72-19-5	no	XO8590000	n/a
L-(+)-Arabinose	<1	5328-37-0	no	n/a	n/a
L-(+)-Lysine	<1	56-87-1	no	OL5540000	n/a
L-(-)-Malic acid sodium salt	<1	68303-40-2	no	n/a	n/a
L-Alanine	<1	56-41-7	no	AY2990000	n/a
L-Arginine	<1	74-79-3	no	CF1934200	n/a
L-Ascorbic acid	<1	50-81-7	no	CI7650000	11900 mg/kg
L-Asparagine monohydrate	<1	5794-13-8	no	n/a	n/a
L-Aspartic acid	<1	56-84-8	no	CI9098500	n/a
L-Canavanine	<1	543-38-4	no	ES7002000	n/a
L-Carnitine hydrochloride	<1	6645-46-1	no	BP2979100	8000 mg/kg
L-Carnosine	<1	305-84-0	no	MS3080000	14930 mg/kg
L-Citrulline	<1	372-75-8	no	n/a	n/a
Leu-Gly-Gly	<1	1187-50-4	no	n/a	n/a
Leu-Leu	<1	3303-31-9	no	n/a	n/a
Leupeptin hydrochloride	<1	24125-16-4	no	n/a	n/a
L-Glutamic acid	<1	56-86-0	no	LZ9700000	30000 mg/kg
L-Glutamine	<1	56-85-9	no	MA2275100	7500 mg/kg
L-Glutathione reduced	<1	70-18-8	no	MC0556000	5000 mg/kg
L-Histidine	<1	71-00-1	no	MS3070000	15000 mg/kg
L-Homoserine	<1	672-15-1	no	n/a	n/a
L-Isoleucine	<1	73-32-5	no	NR4705000	n/a
L-Lactic acid	<1	79-33-4	no	OD2800000	4875 mg/kg
L-Leucine	<1	61-90-5	no	OH2850000	n/a
L-Methionine	<1	63-68-3	no	PD0457000	36000 mg/kg
L-Ornithine hydrochloride	<1	3184-13-2	no	RM2985000	10000 mg/kg
L-Phenylalanine	<1	63-91-2	no	AY7535000	n/a
L-Proline	<1	147-85-3	no	TW3584000	n/a
L-Serine	<1	56-45-1	no	VT8100000	n/a
L-Thyroxine	<1	51-48-9	no	YP2833500	n/a
L-Tryptophan	<1	73-22-3	no	YN6130000	16000 mg/kg
L-Tyrosine	<1	60-18-4	no	YP2275600	n/a
L-Valine	<1	72-18-4	no	YV9361000	n/a

(CONTINUED) - SECTION 2 - Composition / Information on Ingredient

Substance Name	%	CAS #	SARA	RTECS	LD50
L- α -Phosphatidylcholine	<1	8002-43-5	no	OG7565000	n/a
Magnesium chloride hexahydrate	<1	7791-18-6	no	OM2975000	8100 mg/kg
Maleic acid	<1	110-16-7	no	OM9625000	2400 mg/kg
Maltotriose hydrate	<1	207511-08-8	no	n/a	n/a
Manganese(II) chloride tetrahydrate	<1	13446-34-9	yes	OO9650000	1484 mg/kg
Met-Ala-Ser	<1	17351-33-6	no	n/a	n/a
Met-gly	<1	14486-03-4	no	n/a	n/a
Molybdenum(III) chloride	<1	13478-18-7	no	QA4681400	n/a
myo-Inositol	<1	87-89-8	no	NM7520800	10000 mg/kg
myo-Inositol 2-monophosphate bis(cyclohexylammonium) salt	<1	103529-92-6	no	n/a	n/a
N-Acetyl-D-galactosamine	<1	1811-31-0	no	n/a	n/a
N-Acetyl-D-glucosamine	<1	7512-17-6	no	LZ6651000	n/a
N-Acetyl-D-mannosamine	<1	7772-94-3	no	n/a	n/a
N-Acetyl-L-glutamic acid	<1	1188-37-0	no	LZ9725000	7000 mg/kg
N-Acetylmuramic acid	<1	10597-89-4	no	n/a	n/a
N-Acetylneuraminic acid	<1	131-48-6	no	n/a	n/a
Nalidixic acid	<1	389-08-2	no	QN2885000	2040 mg/kg
Nickel(II) chloride hexahydrate	<1	7791-20-0	yes	QR6480000	186 mg/kg
Nicotinamide	<1	98-92-0	no	QS3675000	3500 mg/kg
Nicotinic acid	<1	59-67-6	no	QT0525000	7000 mg/kg
N-p-Tosyl-L-phenylalanine chloromethyl ketone	<1	402-71-1	no	XT5613500	n/a
N α -Benzoyl-L-arginine ethyl ester hydrochloride	<1	2645-08-1	no	n/a	n/a
O-Phospho-DL-threonine	<1	27530-80-9	no	n/a	n/a
O-Phospho-L-serine	<1	407-41-0	no	n/a	n/a
O-Phospho-L-tyrosine	<1	21820-51-9	no	n/a	n/a
Oxalacetic acid	<1	328-42-7	no	n/a	n/a
Oxalic acid	<1	144-62-7	no	RO2450000	7500 mg/kg
Oxamic acid	<1	471-47-6	no	n/a	n/a
Palmitic acid	<1	57-10-3	no	RT4550000	10000 mg/kg
p-Coumaric acid	<1	501-98-4	no	GD9095000	2850 mg/kg
Penicillin G sodium salt	<1	69-57-8	no	XH9800000	6916 mg/kg
Pepstatin A	<1	26305-03-3	no	SC6155000	2000 mg/kg
Phenol	<1	108-95-2	yes	SJ3325000	500 mg/kg
Phospho(enol)pyruvic acid monosodium salt hydrate	<1	53823-68-0	no	n/a	n/a
Phytic acid sodium salt hydrate	<1	14306-25-3	no	n/a	n/a
Protamine sulfate salt	<1	53597-25-4	no	VO9470000	n/a
Protoporphyrin disodium salt	<1	50865-01-5	no	TS5450000	5000 mg/kg
Pyridoxal 5-phosphate monohydrate	<1	41468-25-1	no	UV1208000	5900 mg/kg
Pyridoxal hydrochloride	<1	65-22-5	no	UV1225000	2150 mg/kg
Pyridoxamine dihydrochloride	<1	524-36-7	no	UV1230000	7500 mg/kg
Pyridoxine	<1	65-23-6	no	UV1300000	4000 mg/kg
Pyruvic acid	<1	127-17-3	no	UZ0829800	n/a
Quinine	<1	130-95-0	no	VA6020000	1800 mg/kg
Rhenium(IV) oxide	<1	12036-09-8	no	n/a	n/a

(CONTINUED) - SECTION 2 - Composition / Information on Ingredient

Substance Name	%	CAS #	SARA	RTECS	LD50
Riboflavin	<1	83-88-5	no	VJ1400000	10000 mg/kg
Riboflavin 5'-monophosphate sodium salt dihydrate	<1	6184-17-4	no	n/a	n/a
S-(5'-Adenosyl)-L-methionine chloride	<1	24346-00-7	yes	n/a	n/a
Salicylic acid	<1	69-72-7	no	VO0525000	1300 mg/kg
Sarcosine	<1	107-97-1	no	VQ2897000	n/a
Shikimic acid	<1	138-59-0	no	GW4600000	n/a
Sodium bromide	<1	7647-15-6	no	VZ3150000	7000 mg/kg
Sodium carbonate	<1	497-19-8	no	VZ4050000	4090 mg/kg
Sodium fluoride	<1	7681-49-4	no	WB0350000	52 mg/kg
Sodium gluconate	<1	527-07-1	no	LZ5235000	n/a
Sodium glyoxylate monohydrate	<1	2706-75-4	no	MD4725000	n/a
Sodium nitrate	<1	7631-99-4	no	WC5600000	2680 mg/kg
Sodium phenyl phosphate dibasic dihydrate	<1	66778-08-3	no	n/a	n/a
Sodium phosphate dibasic dihydrate	<1	10028-24-7	no	n/a	n/a
Sodium pyrophosphate tetrabasic decahydrate	<1	13472-36-1	no	n/a	n/a
Sodium pyruvate	<1	113-24-6	no	n/a	n/a
Sodium tetraborate decahydrate	<1	1303-96-4	no	VZ2275000	5000 mg/kg
Spermidine	<1	124-20-9	no	EJ7000000	n/a
Spermine	<1	71-44-3	no	EJ7175000	n/a
Stachyose hydrate	<1	54261-98-2	no	n/a	n/a
Succinic acid disodium salt hexahydrate	<1	6106-21-4	no	n/a	n/a
Sucrose	<1	57-50-1	no	WN6500000	29700 mg/kg
Sulfanilamide	<1	63-74-1	no	WO8400000	3900 mg/kg
Tacsimate	<1	n/a	no	n/a	n/a
Tannic acid	<1	1401-55-4	no	WW5075000	5000 mg/kg
Taurine	<1	107-35-7	no	WX0175000	5000 mg/kg
Tetracycline hydrochloride	<1	64-75-5	yes	QI9100000	6443 mg/kg
Tetrahydrofolic acid	<1	135-16-0	no	MA0600800	n/a
Theophylline	<1	58-55-9	no	XH3850000	350 mg/kg
Thiamine hydrochloride	<1	67-03-8	no	XI7350000	3710 mg/kg
Thiamine monophosphate chloride dihydrate	<1	273724-21-3	no	n/a	n/a
Thiamine pyrophosphate	<1	154-87-0	no	XI7552000	n/a
Thionicotinamide adenine dinucleotide	<1	4090-29-3	no	n/a	n/a
Thymidine	<1	50-89-5	no	XP2071000	n/a
Thymidine 5'-monophosphate disodium salt hydrate	<1	33430-62-5	no	n/a	n/a
Thymidine 5'-triphosphate sodium salt	<1	18423-43-3	no	n/a	n/a
Thymine	<1	65-71-4	no	XP2100000	3500 mg/kg
trans-Cinnamic acid	<1	140-10-3	no	GD7850000	100 mg/kg
trans-Dehydroandrosterone	<1	53-43-0	no	BV8396000	10000 mg/kg
Tris	<1	77-86-1	no	TY2900000	5900 mg/kg
Trp-Gly hydrochloride	<1	63193-13-5	no	n/a	n/a
Tryptone	<1	n/a	no	n/a	n/a
Tyr-Leu	<1	17355-10-1	no	n/a	n/a
Tyr-Phe	<1	17355-11-2	no	n/a	n/a
Urea	<1	57-13-6	no	YR6250000	8471 mg/kg

(CONTINUED) - SECTION 2 - Composition / Information on Ingredient

Substance Name	%	CAS #	SARA	RTECS	LD50
Uridine	<1	58-96-8	no	YR1450000	n/a
Uridine 5'-diphosphate sodium salt	<1	21931-53-3	yes	n/a	n/a
Uridine 5'-diphospho-N-acetylglucosamine sodium salt	<1	91183-98-1	no	n/a	n/a
Uridine 5'-monophosphate disodium salt hydrate	<1	3387-36-8	no	YU7975000	12000 mg/kg
Uridine 5'-triphosphate trisodium salt hydrate	<1	19817-92-6	no	n/a	n/a
Val-Ser	<1	13588-94-8	no	n/a	n/a
Vanillin	<1	121-33-5	no	YW5775000	3925 mg/kg
Vitamin B12	<1	68-19-9	no	GG3750000	n/a
Xanthine	<1	69-89-6	no	ZD7700000	n/a
Zinc chloride	<1	7646-85-7	no	ZH1400000	350 mg/kg
Z-Val-Phe	<1	19542-51-9	no	n/a	n/a
α -D-Glucose 1-phosphate disodium salt hydrate	<1	56401-20-8	no	n/a	n/a
α -Ketoglutaric acid disodium salt	<1	305-72-6	no	n/a	n/a
β -Cyclodextrin	<1	7585-39-9	no	GU2293000	18800 mg/kg
β -Estradiol	<1	50-28-2	no	KG2975000	n/a
β -Nicotinamide adenine dinucleotide hydrate	<1	53-84-9	no	UU3450000	n/a
β -Nicotinamide adenine dinucleotide phosphate sodium salt	<1	1184-16-3	no	n/a	n/a
β -Nicotinamide adenine dinucleotide phosphate tetrasodium salt hydrate	<1	2646-71-1	no	n/a	n/a
β -Nicotinamide adenine dinucleotide, reduced dipotassium salt	<1	104809-32-7	yes	n/a	n/a
γ -Aminobutyric acid	<1	56-12-2	no	ES6300000	12680 mg/kg

SECTION 3 - Hazards Identification**HMIS RATING**

HEALTH HAZARD: 0

FLAMMABILITY: 0

REACTIVITY: 0

NFPA RATING

HEALTH HAZARD: 0

FLAMMABILITY: 0

REACTIVITY: 0

HAZARD RATINGS

0 - LEAST

1 - SLIGHT

2 - MODERATE

3 - HIGH

4 - EXTREME

For additional information on toxicity, please refer to **SECTION 11**.

SECTION 4 - First Aid Measures

ORAL EXPOSURE

- If swallowed, wash out mouth with water provided person is conscious.
- DO NOT INDUCE VOMITING.
- Call a physician immediately.

INHALATION EXPOSURE

- If inhaled, remove to fresh air. If not breathing give artificial respiration.
- If breathing is difficult, GIVE OXYGEN.
- Call a physician.

DERMAL EXPOSURE

- In case of contact, immediately wash skin with soap and copious amounts of water for at least 15 minutes.
- Remove contaminated clothing and shoes.
- Call a physician.

EYE EXPOSURE

- In case of contact with eyes, flush with copious amounts of water for at least 15 minutes.
- Assure adequate flushing by separating the eyelids with fingers.
- Call a physician.

SECTION 5 - Fire Fighting Measures

FLASH POINT

N/A

EXPLOSION LIMITS

N/A

AUTOIGNITION TEMPERATURE

N/A

EXTINGUISHING MEDIA

- Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

- Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6 - Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

- Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTIONS

- Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

- Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal.
- Ventilate area and wash spill site after material pickup is complete.

SECTION 7 - Handling & Storage

HANDLING

- User Exposure
 - Do not breathe vapor.
 - Do not get into eyes, on skin, on clothing.
 - Avoid prolonged or repeated exposure.

STORAGE

- Suitable: Keep tightly closed.

SECTION 8 - Exposure Controls / PPE

ENGINEERING CONTROLS

- Safety shower and eye bath

PERSONAL PROTECTIVE EQUIPMENT

- Respiratory: Use respirators and components tested and approved under appropriate government standards such as (NIOSH) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type (P1) (EN 143) dust masks.
- Hand: Compatible chemical-resistant gloves.
- Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

- Wash thoroughly after handling.

SECTION 9 - Physical / Chemical Properties

APPEARANCE

PHYSICAL STATE: Liquid

PROPERTY

VALUE

AT TEMPERATURE OR PRESSURE

Molecular Weight	N/A
pH	N/A
BP / BP Range	N/A
MP / MP Range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Concentration	N/A
SG / Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile %	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Surface Tension	N/A
Partition Coefficient	N/A
Decomposition Temperature	N/A
Flash Point	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temperature	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	N/A

N/A = NOT AVAILABLE

SECTION 10 - Stability & Reactivity

STABILITY

- Stable: Stable.

HAZARDOUS DECOMPOSITION PRODUCTS

- N/A

HAZARDOUS POLYMERIZATION

- Will not occur.

SECTION 11 - Toxicological Information

ROUTE OF EXPOSURE

- Skin Contact: May cause skin irritation
- Skin Absorption: May be harmful if absorbed through the skin.
- Eye Contact: May cause eye irritation.
- Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
- Ingestion: May be harmful if swallowed.

SIGNS & SYMPTOMS OF EXPOSURE

- To the best of our knowledge, the chemical, physical, and toxicological properties have NOT been thoroughly investigated.

SECTION 12 - Ecological Information

- No data available.

SECTION 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

- Contact a licensed professional waste disposal service to dispose of this material.
- Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and a scrubber.
- Observe all federal, state, and local environmental regulations.

SECTION 14 - Transportation Information

DOT (US)

- UN- Number: 3316
- Class: N/A
- Proper Shipping Name: Chemical kits or First aid kits (containing hazardous materials)
- Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

- UN- Number: 3316
- Class: N/A
- Proper Shipping Name: Chemical kits or First aid kits (containing hazardous materials)
- Non-Hazardous for Transport: Non-hazardous for air transport.

SECTION 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATIONS

- S: 24 / 25
- Safety Statements: Avoid contact with skin and eyes.

US CLASSIFICATION & LABEL TEXT

- Safety Statements: Wear suitable protective clothing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

UNITED STATES REGULATORY INFORMATION

- SARA LISTED: NO

CANADA REGULATORY INFORMATION

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

SECTION 16 - Other Information

DISCLAIMER

- For R&D use only. Not for drug, household, or other use.

WARRANTY

- The above information is believed to be correct but does no purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of this product. Hampton Research Corp., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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