



Mine Safety Appliances Company • Instrument Division • P.O. Box 427 • Pittsburgh, PA 15230-0427

Telephone: (800) MSA-INST

August 24, 2004

To whom it may concern:

MSA P/N 10049765 Warfare tube kit with elf pump, AND P/N 10044998 Warfare kit without pump contains each of the following five detector tubes for detection of the indicated chemical warfare agents.

P/N 10007650	Lewisite
P/N 10007651	Cyanogen
P/N 10007652	Blister agents
P/N 10007653	Mustard gas
P/N 10007654	Phosphoric esters

These kits and the tubes within them are considered articles as defined in 29 CFR 1910.1200 (c). Articles are exempt from the Hazard Communication Standard and therefore no MSDS is required for this product. In order to aid in your understanding the contents of this detector tube please refer to each the specific Content Information Sheet (CIS) for each of the five detector tubes. **These five CIS's are attached.**

Please note that environments in which this detector tube was exposed to during use or otherwise may have impacted its contents and that it is your responsibility to dispose of spent tubes in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

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MSA P/N 10007654 Phosphoric esters detector tube, is considered an article as defined in 29 CFR 1910.1200 (c). Articles are exempt from the Hazard Communication Standard and therefore no MSDS is required for this product. In order to aid in your understanding the contents of this detector tube, the following table lists potential hazardous components within this tube at the time of manufacture.

COMPONENTS	CAS #	PERCENT
4-(4-Nitrobenzyl)pyridine	1083-48-3	≤ 0.03
5,5-dimethyl-1,3 cyclohexanedione	126-81-8	≤ 0.05
4 Benzylpyridene	2116-65-6	≤ 0.1
Picric acid	88-89-1	≤ 0.02
Sodium carbonate	497-19-8	≤ 1
Silica gel	112926-00-8	≤ 9
Polyethylene stopper	N/A	≤ 5
Glass	N/A	≤ 85

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MSA P/N 10007653 Mustard gas detector tube, is considered an article as defined in 29 CFR 1910.1200 (c). Articles are exempt from the Hazard Communication Standard and therefore no MSDS is required for this product. In order to aid in your understanding the contents of this detector tube, the following table lists potential hazardous components within this tube at the time of manufacture.

COMPONENTS	CAS #	PERCENT
4 (4- Nitrobenzyl) Pyridine	1083-48-3	≤ 0.02
Sodium perchlorate	7601-89-0	≤2
Sodium hydroxide	1310-73-2	≤0.2
Silica gel	112926-00-8	≤4
glass	N/A	≤94
Polyethylene stopper	N/A	≤4

Please note that environments in which this detector tube was exposed to during use or otherwise may have impacted its contents and that it is your responsibility to dispose of spent tubes in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

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MSA P/N 10007652 Blister agent Detector Tube, is considered an article as defined in 29 CFR 1910.1200 (c). Articles are exempt from the Hazard Communication Standard and therefore no MSDS is required for this product. In order to aid in your understanding the contents of this detector tube, the following table lists potential hazardous components within this tube at the time of manufacture.

COMPONENTS	CAS #	PERCENT
4,4-bis-(diethylamino)benzophenone	90-93-7	≤ 0.04
Magnesium perchlorate	10034-81-8	≤0.08
3-phenyl-1-propanol	122-97-4	≤0.02
Silica Gel	112926-00-8	≤4
Glass	N/A	≤95
Polyethylene stopper	N/A	≤4

Please note that environments in which this detector tube was exposed to during use or otherwise may have impacted its contents and that it is your responsibility to dispose of spent tubes in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

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To whom it may concern:

MSA P/N 10007651 Cyanogen detector tube, is considered an article as defined in 29 CFR 1910.1200 (c). Articles are exempt from the Hazard Communication Standard and therefore no MSDS is required for this product. In order to aid in your understanding the contents of this detector tube, the following table lists potential hazardous components within this tube at the time of manufacture.

COMPONENTS	CAS #	PERCENT
Acetylcholinesterase	9000-81-1	<0.05
Acetylthiocholine iodide	1866-15-5	<0.1
5-5'Dithiobis(2-nitrobenzoic acid)	69-78-3	<0.1
Cellulose	N/A	<2
Buffer phosphate, 8.0 pH	N/A	< 4
Glass	N/A	< 89
Poly ethylene stopper	N/A	-- 4

Please note that environments in which this detector tube was exposed to during use or otherwise may have impacted its contents and that it is your responsibility to dispose of spent tubes in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

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MSA P/N 10007650 Lewisite detector tube, is considered an article as defined in 29 CFR 1910.1200 (c). Articles are exempt from the Hazard Communication Standard and therefore no MSDS is required for this product. In order to aid in your understanding the contents of this detector tube, the following table lists potential hazardous components within this tube at the time of manufacture.

COMPONENTS	CAS #	PERCENT
Osmic acid	20816-12-0	≤ 0.01
Silica gel	N/A	≤ 2
glass	N/A	≤ 92
Polyethylene stopper	N/A	≤ 4

Please note that environments in which this detector tube was exposed to during use or otherwise may have impacted its contents and that it is your responsibility to dispose of spent tubes in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

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