



Mine Safety Appliances Company, 1000 Cranberry Woods Drive, Cranberry Twp, PA 16066

Telephone: 724-776-8600

MSA P/N **ALTAIR® Pro single gas Detector** is a portable instrument for the detection of hazardous atmospheres it is considered an article as defined in 29 CFR 1910.1200 (c). Articles are exempt from the OSHA Hazard Communication Standard and therefore no MSDS is required for this product. In order to aid in your understanding of the contents of the **ALTAIR® Pro single gas Detector**, the following table lists components within each Altair 5x at the time of manufacture.

COMPONENTS	QUANTITY
Printed Circuit Board with lead	1 board
LED display	1
Lithium Battery	See attached
Sensors- various	See attached

Please note that the environment in which you used this instrument may have affected its contents and that it is your responsibility to dispose of the instrument **ALTAIR® Pro single gas Detector** in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

Should you have additional questions, please contact MSA at the above telephone number.

Creation Date – June 3, 2014

Revision 0- June 3, 2014



Mine Safety Appliances Company, 1000 Cranberry Woods Drive, Cranberry Twp, PA 16066

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To whom it may concern:

MSA P/N 711303, a hydrogen sulfide sensor used in various MSA Instruments, 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 sensor the following table lists chemical components within the sensor, at the time of manufacture.

CHEMICAL COMPONENTS	QUANTITY
Sulfuric acid	≤ 1 ml
Platinum	<u>trace</u>

Please note that the environment in which you used the sensor may have impacted its contents and that it is your responsibility to dispose of the sensor in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

Should you have additional questions contact MSA at the above phone number.

Revision 1-June 3, 2014



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To whom it may concern:

MSA P/N 711302, a carbon monoxide sensor used in various MSA Instruments, 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 sensor the following table lists chemical components within the sensor, at the time of manufacture.

CHEMICAL COMPONENTS	QUANTITY
Sulfuric acid	≤ 1 ml
Activated alumina impregnated with potassium permanganate	≤ 0.1 gram
Activated charcoal	≤ 0.1 gram
Silver	≤ 0.1 gram

Please note that the environment in which you used the sensor may have impacted its contents and that it is your responsibility to dispose of the sensor in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

Should you have additional questions contact MSA at the above telephone number.

Revision 1- June 2014



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To whom it may concern:

MSA P/N 10046936, a Series 20 oxygen sensor used in many portable monitoring devices, is considered an article as defined in 29 CFR 1910.1200 (c). Articles are exempt from the OSHA Hazard Communication Standard and therefore no MSDS is required for this product. In order to aid in your understanding of the contents of this sensor, the following table lists chemical components within the sensor at the time of manufacture.

CHEMICAL COMPONENTS	QUANTITY
Potassium Acetate Gel	≤ 5 ml
Lead (all or part of the lead may be in the form of lead acetate)	≤ 20 grams

Please note that the environment in which you used the sensor may have impacted its contents and that it is your responsibility to dispose of the sensor in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

Should you have additional questions contact MSA at the above phone number.

Creation Date – July 6, 2006

Revision 2: June 2014



Mine Safety Appliances Company, 1000 Cranberry Woods Drive, Cranberry Twp, PA 16066

Telephone: 724-776-8600

To whom it may concern:

MSA P/N 10074132, the battery in the ALTAIR® Pro Single-Gas Detector, is considered an article as defined in 29CFR 1910.1200 (c). Articles are exempt from the Hazard Communication Standard and no MSDS is required for this product. In order to aid in your understanding the contents of this battery pack the following table lists potential hazardous components within the battery at the time of manufacture.

POTENTIAL HAZARDOUS COMPONENTS	Percent by weight
Carbon Black (CAS 1333-86-4)	0-1
1,2 Dimethoxyethane (CAS 110-71-4)	0-6
1,3 Dioxolane (CAS 646-06-0)	0-8
Graphite (CAS 7782-42-5)	0-3
Lithium (CAS 7439-93-2)	1-6
Lithium perchlorate (CAS 7791-03-9)	0-3
Lithium Trifluoromethanesulfonate (CAS 33454-65-6)	0-3
Lithium Trifluoromethanesulfonimide (CAS 90076-65-6)	
Manganese Dioxide (CAS 1313-13-9)	12-42
Propylene Carbonate-Solvent (CAS 108-32-7)	0-8

Please note that the environment in which you used the battery pack may have impacted its contents and that it is your responsibility to dispose of spent battery packs in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

Should you have additional questions contact MSA at the above phone number.

Creation Date – August 21, 2009

Revision1:June,2014

