

PAYLOAD HAZARD REPORT		a. NO: GHR-AMS02-002
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE		c. PHASE: III
d. SUBSYSTEM: Materials	e. HAZARD GROUP: Toxicity	f. DATE: August 2010
g. HAZARD TITLE: Exposure to Toxic Materials.		i. HAZARD CATEGORY <input checked="" type="checkbox"/> CATASTROPHIC <input type="checkbox"/> CRITICAL
h. APPLICABLE SAFETY REQUIREMENTS: KHB 1700.7C, Sections: 4.3.9 GSE Materials For Materials of Flight Hardware, see AMS-02-F10		
j. DESCRIPTION OF HAZARD: Toxic materials in AMS-02 flight hardware/GSE, or used on AMS-02 flight hardware/GSE (i.e. cleaning solvents) causes injury/death to personnel. (Note: A list of materials that AMS-02 is bringing to KSC is listed in the GSE Materials Matrix at the end of this hazard report. The amount of each type of material is small (the largest amount being approximately 4 oz.). The project will use all the material in a well ventilated area and use appropriate PPE as defined in the MSDS.)		
k. HAZARD CAUSES: 1. Improper use of toxic materials. 2. Improper containment of toxic materials.		
l. HAZARD CONTROLS: (See continuation sheet)		
m. SAFETY VERIFICATION METHODS: (See continuation sheet)		
n. STATUS OF VERIFICATION: (See continuation sheet)		
o. APPROVAL	PAYLOAD ORGANIZATION	SSP/ISS
PHASE I		
PHASE II		
PHASE DIII	<i>TRENT MARTIN 8/16/10</i>	<i>[Signature] 8/25/10</i>

PAYLOAD HAZARD REPORT CONTINUATION SHEET	a. NO: GHR AMS02-002
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE	c. Phase III
k. HAZARD CAUSES: 1. Improper use of toxic materials.	
l. HAZARD CONTROLS: 1.1 Toxic materials will be handled by trained personnel. 1.2 Toxic materials will be used according to written procedures approved by the LSSO. 1.3 Use of toxic materials will be minimized when possible (non-toxic alternatives will be substituted for toxic materials when possible).	
m. SAFETY VERIFICATION METHODS: 1.1.1 Review list of certified personnel. 1.2.1 Review and approval of written procedures to ensure proper handling of toxic materials. 1.3.1 Review of toxic material applications for acceptable alternatives.	
n. STATUS OF VERIFICATION: 1.1.1 Closed to SVTL. 1.2.1 Closed 12/04/09. ESCG-4295-09-CPAS-MEMO-0016, Toxic Materials Usage within AMS-02, dated 12/03/09. 1.3.1 Closed 12/04/09. ESCG-4295-09-CPAS-MEMO-0016, Toxic Materials Usage within AMS-02, dated 12/03/09. Alternative methods considered per Chris Tutt at the delta phase III review.	

<p align="center">PAYLOAD HAZARD REPORT CONTINUATION SHEET</p>	<p>a. NO: GHR AMS02-002</p>
<p>b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE</p>	<p>c. Phase III</p>
<p>k. HAZARD CAUSES: 2. Improper containment of toxic materials.</p>	
<p>l. HAZARD CONTROLS: 2.1 Cleaning solvents and adhesive materials will be contained in NFPA-approved containers. 2.2 Toxic materials for flight hardware and GSE will be in suitable containment for its toxicity level.</p>	
<p>m. SAFETY VERIFICATION METHODS: 2.1.1 Inspection of cleaning solvent/adhesive material containers. 2.2.1 Inspection of containment of flight/GSE toxic material to ensure it is suitable for the material it holds.</p>	
<p>n. STATUS OF VERIFICATION:/ 2.1.1 Closed to SVTL KSC support request submitted.. 2.2.1 Closed 12/04/09. ESCG-4295-09-CPAS-MEMO-0016, Toxic Materials Usage within AMS-02, dated 12/03/09.</p>	

GSE MATERIALS LIST

BRAND NAME / MANUFACTURER	SUBSTANCE (SOLVENT, EXPOXY, PLASTIC FILM, ETC)	QUANTITY	PROCESSING LOCATION AT KSC	USE	MSDS FORWARDED TO KSC? (YES/NO)
Loctite/Henkel Technologies	Sealant	(1) 1.75 oz bottles	SSPF	Threadlock	Yes
Alodine/Henkel Surface Technologies					
Aeroglaze 9743A/Lord Corporation	Solvent	(2) 4 oz. bottles	SSPF	Used for electrical bonding	Yes
Aeroglaze 9700 Part B/Lord Corporation	Epoxy Primer	(2) 20 gram bottles	SSPF	EBCS, PVGF installation-adhesive when combined with Aeroglaze 9700 Part B	Yes
Braycote 601EF/SPI Supplies Division	Epoxy Primer	(2) 1 gram bottles	SSPF	EBCS, PVGF installation	Yes
Super Korocon	Grease	(1) partially filled tube, appr. 4 oz.	SSPF	Lubricant	Yes
	Liquid	(2) 2 oz. bottles	SSPF	Corrosion Prevention	Yes