Draft Emission Factor Results (μg/m²/h) From Lawrence Berkeley National Laboratories Chamber Testing

	<u>_</u>	mission Factor Results (µg/m /n) F							<b>8</b>
Sample	CPSC ID#	Company Name	Hydrogen Sulfide	Carbonyl Sulfide		Methyl Mercaptan	Dimethyl Sulfide	Ethyl Mercaptan	Carbon Disulfide
C 17	9673	Knauf Plasterboard (Tianjin) Co., Ltd. (2005): China	203.27		13.44		0.89		0.28
		Taian Taishan Plasterboard Co., Ltd. (2006):							
C 4	8357	China	185.14	0.87	64.36	1.47	0.36		3.67
0.0	7000	Shandong Taihe Dongxin Co., Ltd. (2005):	100.17		44.60	1.00	0.44		0.70
C 3	7339	China Knauf Plasterboard (Tianjin) Co., Ltd. (2006):	123.16		44.60	1.33	0.44		2.70
C 1	1379	China	118.83	1.35	36.09	0.93	0.40		2.44
	1377	Taian Taishan Plasterboard Co., Ltd. (2006):	110.03	1.55	30.07	0.73	0.40		2.77
C 16	9672	China	67.11		1.53		0.87		
		Taian Taishan Plasterboard Co., Ltd. (2006):							
C 5	9707	China	24.75	0.66	10.25	0.10	0.29		1.21
		Shandong Chenxiang GBM Co., Ltd (C&K							
C 2	7069	Gypsum Board) (2006): China	22.04		8.13	0.27	0.31		1.08
0.0	0/00	Beijing New Building Materials Co., Ltd.	45.40		0.01		0.07		
C 9	2632	(BNBM) (2009)^: China Taian Taishan Plasterboard Co., Ltd (2009):	15.43		2.91		0.87		
C 11	2635	China	10.88				0.89		
CII	2033	Shandong Taihe Dongxin Co., Ltd. (2009):	10.00				0.07		
C 12	2636	China	8.58				0.95		
		Knauf Plasterboard (Tianjin) Co., Ltd. (2009):							
C 10	2634	China	4.99				0.88		
		Tiger *** ShiGao JianCai *** liangpianzhuang							
C 15		(2006): China	4.15				0.85		
NA 2	7639	USG Corporation (2009): US	3.99		4.24		0.24		0.72
C 7	1493	Guangdong Knauf New Building Material Products Co., Ltd. (2009): China	3.36				0.94		
NA 9	9175	3/8" drywall, manufacturer uncertain (date uncertain)*: China	3.32		2.53		0.38		0.59
		Knauf Plasterboard (Wuhu) Co., Ltd. (2009):							
C 6	1491	China	3.18				0.91		
NA 7	0224	CertainTeed Corp. (2009): US	2.39				0.15		0.40
IVA /	0230	Certain recu Gorp. (2007). 03	2.39				0.13		0.48
NA 11	9961	Georgia Pacific Corp. (2009): US	1.74		2.54		0.16		0.49
	,,,,,	Dragon Brand, Beijing New Building Materials	,		2.0.1		0.10		0.17
C 14	7078	Co., Ltd. (2006): China	1.04				0.86		
NA 6	8235	CertainTeed Corp. (2009): US	0.12				0.16		0.36
		Pingyi Baier Building Materials Co., Ltd.							
C 8	2631	(2009): China					0.94		
		Sample purchased in China, manufacturer							
C 13		unknown (2009)^: China					0.90		
NA 1		Panel Rey S.A. (2009): Mexico					0.18		0.45
NA 13		Lafarge North America (2009): US			10/		0.90		0.40
NA 3		National Gypsum Company (2009): US National Gypsum Company (2009): US			1.36		0.23		0.48
NA 4		31			2.00		0.18		0.69
NA 5		Georgia Pacific Corp. (2009): US Pabco Gypsum (2009): US		4 4 0	2.00		0.31		0.67
NA 8		Temple-Inland Inc. (2009): US		1.12	4.11	0.15	0.31		0.53
NA 10		USG Corporation (2009): US			4.99		0.10		0.13
NA 12					0.61		0.19		0.54
See notes	on next	bage							

## NOTES FOR DRAFT TABLE OF REACTIVE SULFUR GAS EMISSIONS (Release Date May 27, 2010)

The data being released in this table continues to be in draft form. Due to refinements in measurements of the molecular weights and other calculations, certain of the draft emission factor results in this table may be different from those reported in Table 1 of the <u>CPSC Staff Preliminary Evaluation of Drywall Chamber Test Results, Reactive Sulfur Gases, authored by Babich, Danello, Hatlelid, Matheson, Saltzman, and Thomas, March 2010. Staff does not believe the differences are of a substantial nature which would change the conclusions of the <u>CPSC Staff Preliminary Evaluation</u>. Staff will continue to refine its analysis as it reviews new data and works in cooperation with staff at Lawrence Berkeley National Laboratories.</u>

The draft table released today is ordered from "high to low" according to the levels of Hydrogen Sulfide emission rates. The ordering of the draft table matches the ordering in the Reactive Sulfur Gas Emissions graph released on May 25, 2010. Table 1 in the <u>CPSC Staff Preliminary Evaluation</u> was ordered by sample number and not according to emission rates.

The sample labeled "NA9" was incorrectly identified in Table 1 of the <u>CPSC Staff Preliminary Evaluation</u>. The "NA9" sample is actually the "3/8" drywall manuf. uncertain (date uncertain)\*: China" as noted in the Reactive Sulfur Gas Emissions graph released on May 25, 2010.

For all samples, parentheses indicate years of manufacture where known.

All drywall tested was regular 1/2" drywall (from 4' x 8' and 4' x 12' samples) except for the sample described as 3/8". All samples were untreated. Chinese and North American samples were obtained from various sources as part of CPSC's ongoing compliance investigation.

<sup>^</sup> Sample collected in China and it is not believed to have been imported into the United States.

<sup>\*</sup> Sub-sample tested is known to be imported from China into the United States in either 2006 or 2007. This sample was collected from a source which had imported from two Chinese manufacturers and there was insufficient information for staff to positively determine which of the two Chinese manufacturers' drywall is represented by this particular sub-sample.