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COMMITTEE OF EXPERTS ON THE TRANSPORT OF DANGEROUS GOODS AND ON THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS

<u>Sub-Committee of Experts on the Transport of Dangerous Goods</u>

Twenty-fifth session, 5-14 July 2004 Item 6 of the provisional agenda

LISTING, CLASSIFICATION AND PACKING

Addition of toxic subsidiary risk to chromium trioxide, anhydrous

Transmitted by the expert from United States of America

Background

Chromium trioxide, anhydrous (UN 1463) is used in chromates, wood treating, inks, paints, rubber pigments, catalysts, plating and anodizing applications, and as an oxidizing agent. It is listed in the Model Regulations as a Division 5.1, PG II oxidizer with a corrosive subsidiary risk. The attached UN data sheet indicates that the substance meets criteria for Division 6.1, PG II dermal toxicity (LD50: 57 mg/kg (rabbits)) and Division 6.1, PG III oral toxicity (LD50: 52 mg/kg (rats)). The values for acute dermal toxicity and acute oral toxicity were determined by testing consistent with the provisions of 2.6.2.1 of the Model Regulations. It is proposed that the entry be amended to include a 6.1 subsidiary risk.

Proposal

Amend the entry in the dangerous goods list for UN 1463 by adding "6.1" to column (4) so that the column would read "6.1, 8".

Submitted by . . .JITU GHANDI

Annex

DATA SHEET TO BE SUBMITTED TO THE UNITED NATIONS FOR NEW OR AMENDED CLASSIFICATION OF SUBSTANCES

		TOM MA	AHAFFEY.		Date MARCH 6, 2002			
produ know	ict in the n" or "no	form to be	transported ' - If data is	. State test me	f basic classification data. Data should relate to the thods. Answer all questions - if necessary state "not in the form requested, provide what is available with			
Section	on 1. S	UBSTANC:	E IDENTI	ГҮ				
1.1	Chemica	ıl name CHI	ROMIUM	TRIOXIDE, A	ANHYDROUS			
1.2	Chemica	ıl formula C	rO ₃ (CHR	OMIUM OXII	DE)			
1.3	Other names/synonyms CHROMIC ACID, CHROMIUM (VI) OXIDE, CHROMIC ANHYDRIDE							
1.4.1	UN num	ber 1	463					
1.4.2	CAS nui	mber 1	333-82-0					
1.5	Proposed	Proposed classification for the Recommendations						
	1.5.1	proper ship	ping name ((3.1.2*) CHR(OMIUM TRIOXIDE, ANHYDROUS			
	1.5.2	class/division packing gro		5.1 II	subsidiary risk(s) (8) (6.1)			
	1.5.3	proposed s	pecial provi	isions, if any				
	1.5.4	proposed p	acking inst	ruction(s)				
Section	on 2. P	HYSICAL	PROPERT	TIES				
2.1	Melting	point or rang	ge 197	°C				
2.2	Boiling 1	point or rang	ge N/A	°C				
2.3	Relative density at :							
	2.3.1	15 °C 85- 9	90 LBS/CU	FT (TAPPEI				
	2.3.2	20 °C						
	2.3.3	50 °C						
2.4	Vapour pressure at :							
	2.4.1	50 °C NO	T APPLIC	ABLE	kPa			
	2.4.2	65 °C			kPa			

^{*} This and similar references are to chapters and paragraphs in the Model Regulations on the Transport of Dangerous Goods.

2.5	Vigage	ity at 20°C**	N/A	m^2/s	Annex			
2.6		ity in water at 20 °C		00 mi	**			
2.7	-	al state at 20 °C (2.2.1.1	<i></i>		<u>solid</u> /liquid/gas**			
2.8	Appearance at normal transport temperatures, including colour and odour .SOLID DARK REI FLAKES OR POWDER, NO ODOR							
2.9	Other r	elevant physical proper	ties			••••		
Sect	ion 3.	FLAMMABILITY						
3.1	Flamm	able vapour						
		Flash point $(2.3.3^*)$	N/A °(C oc/cc				
	3.1.2	Is combustion sustai						
3.2		nition temperature N/	`	(1.5) y 0 5/110				
3.3	Ü	ability range (LEL/UE)		0/0				
3.4			,					
J. T		Is the substance a flammable solid? (2.4.2*) 3.4.1 If yes, give details NOT APPLICABLE						
Sect	ion 4.	CHEMICAL PROPE	RTIES					
4.1		t hazardous reactivity?		abilization	or other treatment such as nitrogen blan	nket to yes/ <u>no</u>		
	4.1.1	Inhibitor/stabilizer u	sed					
	4.1.2	Alternative method						
	4.1.3	Time effective at 55	°C					
	4.1.4 Conditions rendering it ineffective							
4.2	Is the substance an explosive according to paragraph 2.1.1.1? (2.1*)							
	4.2.1							
4.3	Is the substance a desensitized explosive? (2.4.2.4*) yes							
	4.3.1	If yes, give details						

^{*} This and similar references are to chapters and paragraphs in the Model Regulations on the Transport of Dangerous Goods.

^{**} See definition of "liquid" in 1.2.1 of the Model Regulations on the Transport of Dangerous Goods.

4.4	Is the substance a self-reactive substance? (2.4.1*)						
	If yes, state						
	4.4.1	exit box of flow chart					
	What is the self-accelerating decomposition temperature (SADT) for a 50 kg package?						
	Is the temperature control required? (2.4.2.3.4*)						
	4.4.2	proposed control temperature for a 50 kg package°C					
	4.4.3	proposed emergency temperature for a 50 kg package°C					
4.5	Is the substance pyrophoric? (2.4.3*)						
	4.5.1	If yes, give details					
4.6	Is the substance liable to self-heating? (2.4.3*)						
	4.6.1	If yes, give details					
4.7	Is the substance an organic peroxide (2.5.1*)						
	If yes state						
	4.7.1	exit box of flow chart					
	What is the self accelerating decomposition temperature (SADT) for a 50 kg package?°C						
	Is temperature control required? (2.5.3.4.1*)						
	4.7.2	proposed control temperature for a 50 kg package°C					
	4.7.3	proposed emergency temperature for a 50 kg package°C					
4.8	Does the 4.8.1	e substance in contact with water emit flammable gases? (2.4.4*)					
4.9	Does the substance have oxidizing properties (2.5.1*)						
	4.9.1	If yes, give details THIS PRODUCT IS A STRONG OXIDIZING AGEN EVEN IN SOLUTION					
4.10	Corrosivity (2.8*) to: METALS						
	4.10.1	mild steelmm/year at	°C				
	4.10.2	aluminiummm/year at	°C				
	4.10.3 (specify)						
		mm/year at	•••••				

^{*} This and similar references are to chapters and paragraphs in the Model Regulations on the Transport of Dangerous Goods.

4.11	Other	relevant chemical prop	erties	PRODUCT IS HY	GROSCOPIC 			
Section	on 5.	HARMFUL BIOLO	GICAI	L EFFECTS				
5.1	LD 50), oral (2.6.2.1.1 [*])	52	mg/kg	Animal species RAT			
5.2	LD 50), dermal (2.6.2.1.2*)	57	mg/kg	Animal species RABB	IT		
5.3	LC 50, inhalation (2.6.2.1.3*)							
5.4	Saturated vapour concentration at 20 °C (2.6.2.2.4.3*)							
5.5	Skin exposure (2.8*) results Exposure time							
5.6	Other	data						
5.7	Huma	n experience						
Secti	on 6.	SUPPLEMENTARY	INFO	ORMATION				
6.1	Recor	Recommended emergency action						
	6.1.1 Fire (include suitable and unsuitable extinguishing agents) USE EXTINGUISHING AGENT APPROPRIATE FOR SURROUNDING FIRE WEAR SELF-CONTAINED BREATH APPARATUS							
	6.1.2	1 0	/ITH	WEAK BASE A	PROPAL DISPOSAL. ND DISPOSE OF IN A	_		
6.2	Is it proposed to transport the substance in:							
	6.2.1	Intermediate Bulk (Contair	ners (6.5^*) ?		yes/ <u>no</u>		
	6.2.2	Portable tanks (6.7*)?			yes/ <u>no</u>		
	If yes,	give details in Sections	s 7 and	I/or 8.				
Secti	on 7.	INTERMEDIATE B	ULK (CONTAINERS (IB	Cs) (only complete if yes i	n 6.2.1 [*])		
7.1	Propo	sed type(s) NO	OT AP	PLICABLE				

^{*} This and similar references are to chapters and paragraphs in the Model Regulations on the Transport of Dangerous Goods.

Section 8. MULTIMODAL TANK TRANSPORT (only complete if yes in 6.2.2)