



# T.F Products Certification

DATE OF ISSUE: Jan 28 2015

## 1. Products

- B220

## 2. Customer

- TF USA

## 3. Investigation

**-This investigation is whether the following substances are contained in the manufacturing process**

### List of ODS (Ozone Depleting Substances)

#### Class I Ozone-depleting Substances

Chemical Name	CAS Number
Group I (from section 602 of the CAA)	
CFC-11 (CCl <sub>3</sub> F) Trichlorofluoromethane	75-69-4
CFC-12 (CCl <sub>2</sub> F <sub>2</sub> ) Dichlorodifluoromethane	75-71-8
CFC-113 (C <sub>2</sub> F <sub>3</sub> Cl <sub>3</sub> ) 1,1,2-Trichlorotrifluoroethane	76-13-1
CFC-114 (C <sub>2</sub> F <sub>4</sub> Cl <sub>2</sub> ) Dichlorotetrafluoroethane	76-14-2
CFC-115 (C <sub>2</sub> F <sub>5</sub> Cl) Monochloropentafluoroethane	76-15-3
Group II (from section 602 of the CAA)	
Halon 1211 (CF <sub>2</sub> ClBr) Bromochlorodifluoromethane	353-59-3
Halon 1301 (CF <sub>3</sub> Br) Bromotrifluoromethane	75-63-8
Halon 2402 (C <sub>2</sub> F <sub>4</sub> Br <sub>2</sub> ) Dibromotetrafluoroethane	124-73-2
Group III (from section 602 of the CAA)	
CFC-13 (CF <sub>3</sub> Cl) Chlorotrifluoromethane	75-72-9
CFC-111 (C <sub>2</sub> FCl <sub>5</sub> ) Pentachlorofluoroethane	354-56-3
CFC-112 (C <sub>2</sub> F <sub>2</sub> Cl <sub>4</sub> ) Tetrachlorodifluoroethane	76-12-0
CFC-211 (C <sub>3</sub> FCl <sub>7</sub> ) Heptachlorofluoropropane	422-78-6
CFC-212 (C <sub>3</sub> F <sub>2</sub> Cl <sub>6</sub> ) Hexachlorodifluoropropane	3182-26-1
CFC-213 (C <sub>3</sub> F <sub>3</sub> Cl <sub>5</sub> ) Pentachlorotrifluoropropane	6/5/2354

CFC-214 (C3F4Cl4) Tetrachlorotetrafluoropropane	29255-31-0
CFC-215 (C3F5Cl3) Trichloropentafluoropropane	4259-43-2
CFC-216 (C3F6Cl2) Dichlorohexafluoropropane	661-97-2
CFC-217 (C3F7Cl) Chloroheptafluoropropane	422-86-6
Group IV (from section 602 of the CAA)	
CCl4 Carbon tetrachloride	56-23-5
Group V (from section 602 of the CAA)	
Methyl Chloroform (C2H3Cl3) 1,1,1-trichloroethane	71-55-6
Group VI (listed in the Accelerated Phaseout Final Rule)	
Methyl Bromide (CH3Br)	74-83-9
Group VII (listed in the Accelerated Phaseout Final Rule)	
CHFBr2	
HBFC-12B1(CHF2Br)	
CH2FBr	
C2HFBr4	
C2HF2Br3	
C2HF3Br2	
C2HF4Br	
C2H2FBr3	
C2H2F2Br2	
C2H2F3Br	
C2H3FBr2	
C2H3F2Br	
C2H4FBr	
C3HFBr6	
C3HF2Br5	
C3HF3Br4	
C3HF4Br3	
C3HF5Br2	
C3HF6Br	
C3H2FBr5	
C3H2F2Br4	
C3H2F3Br3	
C3H2F4Br2	
C3H2F5Br	
C3H3FBr4	
C3H3F2Br3	
C3H3F3Br2	
C3H3F4Br	
C3H4FBr3	
C3H4F2Br2	
C3H4F3Br	
C3H5FBr2	

C3H5F2Br

C3H6FBr

Group VIII (from the Chlorobromomethane Phaseout Final Rule)

CH2BrCl Chlorobromomethane

### **Class II Ozone-depleting Substances**

Chemical Name	CAS Number
HCFC-21 (CHFCI2) Dichlorofluoromethane	75-43-4
HCFC-22 (CHF2Cl) Monochlorodifluoromethane	75-45-6
HCFC-31 (CH2FCI) Monochlorofluoromethane	593-70-4
HCFC-121 (C2HFCl4) Tetrachlorofluoroethane	354-14-3
HCFC-122 (C2HF2Cl3) Trichlorodifluoroethane	354-21-2
HCFC-123 (C2HF3Cl2) Dichlorotrifluoroethane	306-83-2
HCFC-124 (C2HF4Cl) Monochlorotetrafluoroethane	2837-89-0
HCFC-131 (C2H2FCI3) Trichlorofluoroethane	359-28-4
HCFC-132b (C2H2F2Cl2) Dichlorodifluoroethane	1649-08-7
HCFC-133a (C2H2F3Cl) Monochlorotrifluoroethane	75-88-7
HCFC-141b (C2H3FCI2) Dichlorofluoroethane	1717-00-6
HCFC-142b (C2H3F2Cl) Monochlorodifluoroethane	75-68-3
HCFC-221 (C3HFCl6) Hexachlorofluoropropane	422-26-4
HCFC-222 (C3HF2Cl5) Pentachlorodifluoropropane	422-49-1
HCFC-223 (C3HF3Cl4) Tetrachlorotrifluoropropane	422-52-6
HCFC-224 (C3HF4Cl3) Trichlorotetrafluoropropane	422-54-8
HCFC-225ca (C3HF5Cl2) Dichloropentafluoropropane	422-56-0
HCFC-225cb (C3HF5Cl2) Dichloropentafluoropropane	507-55-1
HCFC-226 (C3HF6Cl) Monochlorohexafluoropropane	431-87-8
HCFC-231 (C3H2FCI5) Pentachlorofluoropropane	421-94-3
HCFC-232 (C3H2F2Cl4) Tetrachlorodifluoropropane	460-89-9
HCFC-233 (C3H2F3Cl3) Trichlorotrifluoropropane	7125-84-0
HCFC-234 (C3H2F4Cl2) Dichlorotetrafluoropropane	425-94-5
HCFC-235 (C3H2F5Cl) Monochloropentafluoropropane	460-92-4
HCFC-241 (C3H3FCI4) Tetrachlorofluoropropane	666-27-3
HCFC-242 (C3H3F2Cl3) Trichlorodifluoropropane	460-63-9
HCFC-243 (C3H3F3Cl2) Dichlorotrifluoropropane	460-69-5
HCFC-244 (C3H3F4Cl) Monochlorotetrafluoropropane	
HCFC-251 (C3H4FCI3) Monochlorotetrafluoropropane	421-41-0
HCFC-252 (C3H4F2Cl2) Dichlorodifluoropropane	819-00-1
HCFC-253 (C3H4F3Cl) Monochlorotrifluoropropane	460-35-5
HCFC-261 (C3H5FCI2) Dichlorofluoropropane	420-97-3
HCFC-262 (C3H5F2Cl) Monochlorodifluoropropane	421-02-03
HCFC-271 (C3H6FCI) Monochlorofluoropropane	430-55-7

#### **4. Results**

**-We hereby certify that ITW SFK does not use the above substances in the manufacturing process as intended raw materials**

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