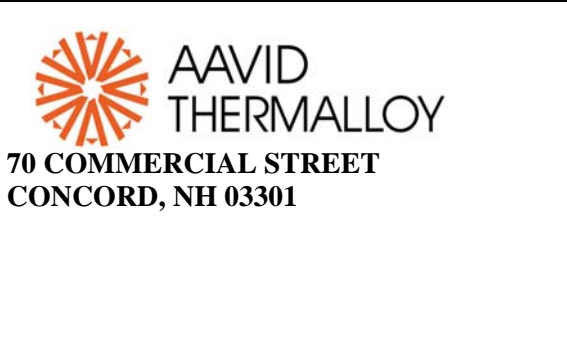
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Revision History

Revision	Description of Change	Revised By
1	Original release	---
2	-Revised Table 1 to remove separate Aavid Thermalloy limits and add column for intentionally added limits -Revised definitions to include concepts of homogenous materials and intentionally added substances -Revised item 6.1 to reflect current practice	Vern Rieck

Controlled Copies Distribution: None. Available on the Intranet.

Revised By	Director Global Quality	Director of Engineering	Manufacturing Plant Manager	Document Control
<i>Vern Rieck</i>	<i>Ed Kilar</i>	<i>Mike Brunelli</i>	<i>Eric Ginter</i>	

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1.0 PURPOSE

This document defines procedures and standards to insure Aavid Thermalloy parts and products conform to global initiatives and legal requirements designed to reduce pollution and improve product recycling.

2.0 RATIONALE

From Aavid Thermalloy's Environmental Policy Statement:

Aavid Thermalloy, LLC is committed to being a responsible citizen within our community and globally through efforts to operate in ways that contribute to a cleaner, healthier environment. We strongly believe that good environmental practice is good business practice. Our customers, company, stakeholders, and community all benefit from this positive, proactive, and cost effective approach.

3.0 SCOPE

This document applies to all materials, parts and products supplied to Aavid Thermalloy except as specifically exempted herein or by separate written agreement.

4.0 RESPONSIBILITIES

Aavid Design Engineering will keep this document current with respect to changing requirements and will use this document to develop product design guidelines for environmentally compliant products.


Aavid Operations, including Process Engineering, will apply this document internally and externally as required to produce environmentally compliant products.

Aavid Suppliers are responsible for informing Aavid Quality of any process changes that affect environmental certification.

Aavid Quality maintains a database of supplier environmental certification documents and issues certificates of compliance based on supplier certifications and Aavid Operations process documentation.

Aavid Purchasing will confirm that the materials and parts it procures are environmentally certified as needed to meet Aavid customer environmental specifications.

Aavid Sales and Marketing is responsible for identifying customer environmental requirements for new products and communicating them to the appropriate Engineering and Operations groups. They are also responsible for communicating Aavid's environmental compliance plan and activities to the customer.

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5.0 DEFINITIONS

RoHS: The European Union Directive “Restriction on the Use of Certain Hazardous Substances (RoHS) in Electrical and Electronic Equipment”. This document currently regulates six substances: lead, mercury, cadmium, hexavalent chromium (Cr+6), polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs).

Concentration Limit: The maximum concentration of a substance allowed in a homogenous material.

Homogenous Material: A material that has uniform composition and cannot be mechanically separated into different materials. A part consists of one or more homogenous materials. For example, an aluminum part with a chromate finish consists of two homogenous materials, the aluminum and the chromate finish.

Part: A component, such as a stamping, a formulated material such as an adhesive, or a finish such as plating or chromating applied to a component.

Intentionally added: A material deliberately added to a part for some practical purpose.

Concentration: The number of parts per million by weight of a substance in a homogenous material.

CAS Number: The Chemical Abstracts Service Registry Number is a unique identifying number for a chemical. Since a given chemical may be known by multiple formal or common names, the CAS number provides assurance of a chemical’s identity.

Ozone Depleting Substances (ODSs): Substances that have been identified by global protocols as materials that reduce the concentration of ozone in the upper atmosphere.


6.0 REQUIREMENTS

6.1 Substances Prohibited by Aavid Thermalloy and/or RoHS

Table 1 lists substances prohibited by Aavid Thermalloy and/or RoHS and their maximum allowable concentration limits in parts supplied to us. Note that the limit for all these materials when intentionally added is zero. Aavid Thermalloy may require certification and/or materials analysis data from suppliers to confirm that parts and services supplied to Aavid Thermalloy comply with these limits.

6.1 Ozone Depleting Substances

Table 2 lists ozone depleting substances (ODSs) that shall not be included in materials or parts supplied to Aavid Thermalloy. These substances also shall not be used in the manufacturing process for materials or parts supplied to Aavid Thermalloy. Use of these materials as part of a physical plant, for example in chillers or fire suppression systems, is not considered a manufacturing use.

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7.0 EXEMPTIONS

Per the EU law, the following uses of lead are exempted from the requirements of this document:

- 7.1 Lead in steel alloys up to 0.35% by weight (3500 parts per million), lead in aluminum alloys up to 0.4% by weight (4000 parts per million), lead in copper alloys, including brasses and bronzes, up to 4.0% by weight (40,000 parts per million).
- 7.2 Lead in high-melting solder alloys where the solder lead content is greater than or equal to 85% by weight.
- 7.2 Lead in electronic ceramic materials or parts, for example piezoelectric materials.



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Table 1

Material Name	Product or Common Names	RoHS Concentration Limit	Intentionally added concentration limit
Cadmium and its compounds		100	0
Mercury and its compounds		1000	0
Lead and its compounds		1000	0
Hexavalent Chromium (Cr+6) and its compounds		1000	0
PBBs and PBDEs	Polybrominated biphenyls and polybrominated diphenyl ethers	1000	0
PBDOs	Polybrominated diphenyl oxides	0*	0
Asbestos (all forms)		0*	0
PCBs and PCTs	Polychlorinated biphenyls and polychlorinated terphenyls	0*	0

* Not regulated under RoHS



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Table 2

Ozone Depleting Substance (ODS)	CAS Number
Chlorofluorocarbons (CFCs):	
Trichlorofluoromethane (CFC-11) and its isomers	75-69-4
Dichlorodifluoromethane (CFC-12) and its isomers	75-71-8
Trichlorotrifluoroethane (CFC-113) and its isomers	76-13-1
Dichlorotetrafluoroethane (CFC-114) and its isomers	76-14-2
Monochloropentafluoroethane (CFC-115) and its isomers	76-15-3
Chlorotrifluoromethane (CFC-13) and its isomers	75-72-9
Pentachlorofluoroethane (CFC-111) and its isomers	354-56-3
Tetrachlorodifluoroethane (CFC-112) and its isomers	76-12-0
Heptachlorofluoropropane (CFC-211) and its isomers	422-78-6
Hexachlorodifluoropropane (CFC-212) and its isomers	3182-26-1
Pentachlorotrifluoropropane (CFC-213) and its isomers	2354-06-5
Tetrachlorotetrafluoropropane (CFC-214) and its isomers	29255-31-0
Trichloropentafluoropropane (CFC-215) and its isomers	1599-41-3
Dichlorohexafluoropropane (CFC-216) and its isomers	661-97-2
Chloroheptafluoropropane (CFC-217) and its isomers	422-86-6
Halons:	
Bromochlorodifluoromethane (Halon-1211) and its isomers	353-59-3
Bromotrifluoromethane (Halon-1301) and its isomers	75-63-8
Dibromotetrafluoroethane (Halon-2402) and its isomers	124-73-2
Carbon tetrachloride	56-23-5
1,1,1-trichloroethane (methyl chloroform) and its isomers except 1,1,2-trichloroethane	71-55-6
Bromomethane (methyl bromide)	74-83-9
Hydrobromofluorocarbons (HBFCs) and their isomers:	
Bromodifluoromethane and its isomers	1511-62-2
HBFC-22B1 (FM-100)	1511-62-2
CH ₂ FBr	NA
C ₂ HFBr ₄	NA
C ₂ HF ₂ Br ₃	NA
C ₂ HF ₃ Br ₂	354-04-1
C ₂ HF ₄ Br	NA
C ₂ H ₂ FBr ₃	NA
C ₂ H ₂ F ₂ Br ₂	75-82-1
C ₂ H ₂ F ₃ Br	421-06-7
C ₂ H ₃ FBr ₂	358-97-4
C ₂ H ₃ F ₂ Br	NA
C ₂ H ₄ FBr	762-49-2
C ₃ HFBr ₆	NA



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C ₃ HF ₂ Br ₅	NA
C ₃ HF ₃ Br ₄	NA
C ₃ HF ₄ Br ₃	NA
C ₃ HF ₅ Br ₂	NA
C ₃ HF ₆ Br	NA
C ₃ H ₂ FBr ₅	NA
C ₃ H ₂ F ₂ Br ₄	NA
C ₃ H ₂ F ₃ Br ₃	NA
C ₃ H ₂ F ₄ Br ₂	NA
C ₃ H ₂ F ₅ Br	NA
C ₃ H ₃ FBr ₄	NA
C ₃ H ₃ F ₂ Br ₃	NA
C ₃ H ₃ F ₃ Br ₂	NA
C ₃ H ₃ F ₄ Br	NA
C ₃ H ₄ FBr ₃	NA
C ₃ H ₄ F ₂ Br ₂	NA
C ₃ H ₄ F ₃ Br	NA
C ₃ H ₅ FBr ₂	NA
C ₃ H ₅ F ₂ Br	NA
C ₃ H ₆ FBr	NA
Hydrochlorofluorocarbons (HCFCs) and their isomers:	
Dichlorofluoromethane (HCFC-21)	75-43-4
Chlorodifluoromethane (HCFC-22)	75-45-6
Chlorofluoromethane (HCFC-31)	593-70-4
Tetrachlorofluoroethane (HCFC-121)	130879-71-9
1,1,1,2-tetrachloro-2-fluoroethane	354-11-0
1,1,2,2-tetrachloro-1-fluoroethane	354-14-3
Trichlorodifluoroethane (HCFC-122)	41834-16-6
Trichloro-1,1-difluoroethane	55949-46-7
1,2,2-trichloro-1,1-difluoroethane	354-21-2
1,2,2-trichloro-1,2-difluoroethane	354-15-4
1,1,1-trichloro-2,2-difluoroethane	354-12-1
1,1,2-trichloro-2,2-difluoroethane	NA
Dichlorotrifluoroethane (HCFC-123)	34077-87-7
Dichloro-1,1,2-trifluoroethane	90454-18-5
2,2-dichloro-1,1,1-trifluoroethane	306-83-2
1,2-dichloro-1,1,2-trifluoroethane (HCFC-123 a)	354-23-4
1,1-dichloro-1,2,2-trifluoroethane	812-04-4
2,2-dichloro-1,1,2-trifluoroethane	NA
Chlorotetrafluoroethane (HCFC-124)	63938-10-3
2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0
1-chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	354-25-6



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Trichlorofluoroethane (HCFC-131) 1,1,2-trichloro-2-fluoroethane 1,1,2-trichloro-1(or 2)-fluoroethane 1,1,2-trichloro-1-fluoroethane (HCFC-131a) 1,1,1-trichloro-2-fluoroethane (HCFC-131b)	27154-33-2 or 134237-34-6 359-28-4 90134-98-8 811-95-0 2366-36-1
Dichlorodifluoroethane (HCFC-132) Dichloro-1,1-difluoroethane 1,1-dichlorodifluoroethane (meso) 1,2-dichloro-1,2-difluoroethane (R,R)-(+)-1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,1-difluoroethane (HCFC- 132b) 1,1-dichloro-1,2-difluoroethane 1,1-dichloro-2,2-difluoroethane 1,2-dichloro-1,2-difluoroethane	25915-78-0 55494-45-6 31153-51-2 33579-37-2 33489-30-4 1649-08-7 1842-05-3 471-43-2 431-06-1
Chlorotrifluoroethane (HCFC-133) 1-chloro-1,2,2-trifluoroethane 1-chloro-1,1,2-trifluoroethane 2chloro-1,1,1-trifluoroethane (HCFC-133a)	1330-45-6 431-07-2 421-04-5 75-88-7
Dichlorofluoroethane (HCFC-141) 1,1-dichloro-1-fluoroethane (HCFC -141b) 1,2-dichloro-1-fluoroethane 1,1-dichloro-2-fluoroethane	25167-88-8 1717-00-6 430-57-9 430-53-5
Chlorodifluoroethane (HCFC-142) Chloro-1,1-difluoroethane 2-chloro-1,1-difluoroethane 1-chloro-1,1-difluoroethane (HCFC-142b) 1-chloro-1,2-difluoroethane (HCFC-142a)	25497-29-4 55949-44-5 338-65-8 75-68-3 338-64-7
Hexachlorofluoropropane (HCFC-221) 1,1,1,2,3,3-hexachloro-3-fluoropropane 1,1,1,2,3,3-hexachloro-2-fluoropropane 1,1,1,2,2,3-hexachloro-1-fluoropropane 1,1,2,2,3,3-hexachloro-1-fluoropropane 1,1,1,3,3,3-hexachloro-2-fluoropropane	29470-94-8 or 134237-35-7 431 -79-8 422-40-2 422-26-4 422-28-6 NA
Pentachlorodifluoropropane (HCFC-222) 1,1,2,3,3 -pentachloro-1,3-difluoropropane 1,1,1,2,3-pentachloro-3,3-difluoropropane 1,1,1,3,3-pentachloro-2,2-difluoropropane 1,2,2,3,3-pentachloro-1,1-difluoropropane 1,1,1,2,2-pentachloro-3,3-difluoropropane 1,1,1,2,3-pentachloro-2,3-difluoropropane 1,1,1,3,3-pentachloro-2,3-difluoropropane (1,1,3,3,3-pentachloro-1,2-difluoropropane) 1,1,2,2,3-pentachloro-1,3-difluoropropane	116867-32-4 or 134237-36-8 421-82-3 431-80-1 422-49-1 422-30-0 422-27-5 NA NA NA



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1,1,2,3,3-pentachloro-1,2-difluoropropane	NA
Ozone Depleting Substance (ODS)	CAS Number
Tetrachlorotrifluoropropane (HCFC-223)	29470-95-9 or 134237-37-9
1,1,1,3-tetrachloro-2,3,3-trifluoropropane	54002-59-4
1,1,2,3-tetrachloro-1,3,3-trifluoropropane	43-83-4
1,1,1,2-tetrachloro-3,3,3-trifluoropropane	43-81-2
1,1,3,3-tetrachloro-1,2,2-trifluoropropane	422-52-6
1,1,1,3-tetrachloro-2,2,3-trifluoropropane	422-50-4
1,2,3,3-tetrachloro-1,1,2-trifluoropropane	422-41-3
2,2,3,3-tetrachloro-1,1,1-trifluoropropane	422-35-5
1,1,2,2-tetrachloro-1,3,3-trifluoropropane	422-29-7
1,1,1,2-tetrachloro-2,3,3-trifluoropropane	NA
1,1,3,3-tetrachloro-1,2,3-trifluoropropane	NA
1,2,2,3-tetrachloro-1,1,3-trifluoropropane	NA
1,1,2,3-tetrachloro-1,2,3-trifluoropropane	NA
Trichlorotetrafluoropropane (HCFC-224)	127564-91-4 or 134237-38-0
1,1,3-trichloro-1,2,3,3-tetrafluoropropane	53063-53-9
1,1,1-trichloro-2,3,3,3-tetrafluoropropane	53063-52-8
1,1,2-trichloro-1,3,3,3-tetrafluoropropane	431-84-5
1,3,3-trichloro-1,1,2,2-tetrafluoropropane	422-54-8
1,1,3-trichloro-1,2,2,3-tetrafluoropropane	422-53-7
1,1,1-trichloro-2,2,3,3-tetrafluoropropane	422-5-5
2,3,3-trichloro-1,1,1,2-tetrafluoropropane	422-47-9
1,2,3-trichloro-1,1,2,3-tetrafluoropropane	422-42-4
1,2,2-trichloro-1,1,3,3-tetrafluoropropane	422-32-2
2,2,3-trichloro-1,1,1,3-tetrafluoropropane	NA
1,1,2-trichloro-1,2,3,3-tetrafluoropropane	NA
Dichloropentafluoropropane (HCFC-225)	127564-92-5
1,3-dichloro-1,1,2,3,3-pentafluoropropane	36013-79-1
3,3-dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	422-56-0
1,3-dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)	507-55-1
2,2-dichloro-1,1,1,3,3-pentafluoropropane (HCFC-225aa)	128903-21-9
1,1-dichloro-1,2,3,3,3-pentafluoropropane	111512-56-2
(R,S)2,3-dichloro-1,1,1,2,3-pentafluoropropane	111512-55-1
(R,R)2,3-dichloro-1,1,1,2,3-pentafluoropropane	111512-51-7
1,1-dichloro-1,2,2,3,3-pentafluoropropane	13474-88-9
1,2-dichloro-1,1,3,3,3-pentafluoropropane (HCFC-225da)	431-86-7
2,3-dichloro-1,1,1,2,3-pentafluoropropane (HCFC-225ba)	422-48-0
1,2-dichloro-1,1,2,3,3-pentafluoropropane	422-44-6
Chlorohexafluoropropane (HCFC-226)	28987-04-4 or 134308-72-8
2-chloro-1,1,1,2,3,3-hexafluoropropane (HCFC-226ba)	51346-64-6
2-chloro-1,1,1,3,3,3-hexafluoropropane (HCFC-226da)	431-87-8
3-chloro-1,1,1,2,2,3-hexafluoropropane (HCFC-226ca)	422-57-1
1-chloro-1,1,2,2,3,3-hexafluoropropane (HCFC-226cb)	422-55-9
1-chloro-1, 1,2,3,3,3-hexafluoropropane (HCFC-226ea)	359-58-0



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Pentachlorofluoropropane (HCFC-231)	NA
1,1,1,2,3-pentachloro-2-fluoropropane	421-94-3
1,1,2,3,3-pentachloro-2-fluoropropane	NA
1,1,1,3,3-pentachloro-3-fluoropropane	NA
1,1,2,2,3-pentachloro-1-fluoropropane	NA
1,1,1,2,2-pentachloro-3-fluoropropane	NA
1,1,1,2,3-pentachloro-3-fluoropropane	NA
1,1,1,3,3-pentachloro-2-fluoropropane	NA
1,1,2,2,3-pentachloro-3-fluoropropane	NA
1,1,2,3,3-pentachloro-1-fluoropropane	NA
Tetrachlorodifluoropropane (HCFC-232)	127564-82-3
1,2,3,3-tetrachloro-1,1-difluoropropane	67879-59-8
1,1,3,3-tetrachloro-2,2-difluoropropane	1112-14-7
1,1,1,3-tetrachloro-2,2-difluoropropane	677-54-3
1,1,1,3-tetrachloro-3,3-difluoropropane	460-89-9
1,1,1,3-tetrachloro-2,3-difluoropropane	NA
1,1,1,2-tetrachloro-2,3-difluoropropane	NA
1,1,1,2-tetrachloro-3,3-difluoropropane	NA
1,1,2,3-tetrachloro-1,2-difluoropropane	NA
1,1,2,3-tetrachloro-1,3-difluoropropane	NA
1,2,3,3-tetrachloro-1,2-difluoropropane	NA
(1,1,2,3-tetrachloro-2,3-difluoropropane)	NA
1,2,2,3-tetrachloro-1,1-difluoropropane	NA
1,2,2,3-tetrachloro-1,3-difluoropropane	NA
1,1,3,3-tetrachloro-1,3-difluoropropane	NA
1,1,2,2-tetrachloro-3,3-difluoropropane	NA
(2,2,3,3-tetrachloro-1,1-difluoropropane)	NA
1,1,2,2-tetrachloro-1,3-difluoropropane	NA



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Trichlorotrifluoropropane (HCFC-233)	61623-04-9 or 134237-40-4
1,1,3-trichloro-2,2,3-trifluoropropane	131221-36-8
1,1,1-trichloro-2,2,3-trifluoropropane	131211-71-7
1,1,3-trichloro-1,2,3-trifluoropropane	54377-32-1
1,1,1-trichloro-2,3,3-trifluoropropane	54306-56-8
1,1,2-trichloro-2,3,3-trifluoropropane	13058-99-6
1,1,1-trichloro-3,3,3-trifluoropropane	7125-84-0
2,2,3-trichloro-1,1,1-trifluoropropane	7125-83-9
2,3,3-trichloro-1,1,1-trifluoropropane	431-51-6
1,1,3-trichloro-1,2,2-trifluoropropane	421-99-8
1,2,3-trichloro-1,1,2-trifluoropropane	421-95-4
1,1,3-trichloro-1,3,3-trifluoropropane	333-26-6
1,1,2-trichloro-1,2,3-trifluoropropane	NA
1,2,3-trichloro-1,2,3-trifluoropropane	NA
1,1,2-trichloro-1,3,3-trifluoropropane	NA
1,3,3-trichloro-1,1,2-trifluoropropane	NA
2,2,3-trichloro-1,1,3-trifluoropropane	NA
1,2,3-trichloro-1,1,3-trifluoropropane	NA
1,2,2-trichloro-1,1,3-trifluoropropane	NA
Dichlorotetrafluoropropane (HCFC-234)	127564-83-4
1,3-dichloro-1,1,3,3-tetrafluoropropane (HCFC-234fa)	76140-39-1
1,3-dichloro-1,2,2,3-tetrafluoropropane	70341-81-0
1,1-dichloro-1,2,2,3-tetrafluoropropane	70192-63-1
1,1-dichloro-1,3,3,3-tetrafluoropropane	64712-27-2
(R,R)1,3-dichloro-1,1,2,3-tetrafluoropropane	53149-65-8
3,3-dichloro-1,1,1,2-tetrafluoropropane	53063-54-0
2,2-dichloro-1,1,3,3-tetrafluoropropane	17705-30-5
1,1-dichloro-2,2,3,3-tetrafluoropropane	4071-01-6
1,2-dichloro-1,2,3,3-tetrafluoropropane	425-94-5
1,3-dichloro-1,1,2,2-tetrafluoropropane (HCFC-234cc)	422-00-5
2,3-dichloro-1,1,1,3-tetrafluoropropane (HCFC-234da)	NA
1,1-dichloro-1,2,3,3-tetrafluoropropane	NA
1,2-dichloro-1,1,3,3-tetrafluoropropane	NA
2,3-dichloro-1,1,1,2-tetrafluoropropane	NA
2,2-dichloro-1,1,1,3-tetrafluoropropane	NA
1,2-dichloro-1,1,2,3-tetrafluoropropane	NA
1,3-dichloro-1,1,2,3-tetrafluoropropane	NA



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Chloropentafluoropropane (HCFC-235)	108662-83-5 or 134237-83-5
3-chloro-1,1,1,2,3-pentafluoropropane	134237-41-5
2-chloro-1,1,1,3,3-pentafluoropropane (HCFC-235da)	134251-06-2
1-chloro-1,2,2,3,3-pentafluoropropane (HCFC-235ca)	28103-66-4
1-chloro-1,1,2,2,3-pentafluoropropane (HCFC-235cc)	679-99-2
1-chloro-1,1,3,3,3-pentafluoropropane (HCFC-235fa)	677-55-4
3-chloro-1,1,1,2,2-pentafluoropropane (HCFC-235cb)	460-92-4
2-chloro-1,1,1,2,3-pentafluoropropane	422-02-6
1-chloro-1,1,2,3,3-pentafluoropropane	NA
2-chloro-1,1,2,3,3-pentafluoropropane	NA
Tetrachlorofluoropropane (HCFC-241)	134190-49-1
1,1,1,2-tetrachloro-3-fluoropropane	84816-05-7
1,1,1,3-tetrachloro-3-fluoropropane	23153-22-2
1,1,2,3-tetrachloro-3-fluoropropane	21981-25-9
1,1,2,2-tetrachloro-1-fluoropropane	7126-06-9
1,1,2,3-tetrachloro-2-fluoropropane	3175-26-6
1,1,1,2-tetrachloro-2-fluoropropane	3175-25-5
1,1,2,3-tetrachloro-1-fluoropropane	666-27-3
1,1,1,3-tetrachloro-2-fluoropropane	NA
1,1,2,2-tetrachloro-3-fluoropropane	NA
1,2,2,3-tetrachloro-1-fluoropropane	NA
1,1,3,3-tetrachloro-1-fluoropropane	NA
1,1,3,3-tetrachloro-2-fluoropropane	NA
Trichlorodifluoropropane (HCFC-242)	127564-90-3 or 134237-42-6
1,3,3-trichloro-1,1-difluoropropane	460-63-9
1,2,3-trichloro-1,2-difluoropropane	7164-14-9
1,1,3-trichloro-2,2-difluoropropane	1112-13-6
1,2,3-trichloro-1,1-difluoropropane	431-24-3
1,1,1-trichloro-2,2-difluoropropane	1112-05-6
1,2,2-trichloro-1,1-difluoropropane	7126-05-8
1,1,2-trichloro-1,2-difluoropropane	7126-04-7
1,1,1-trichloro-2,3-difluoropropane	NA
1,1,2-trichloro-1,3-difluoropropane	NA
1,1,3-trichloro-1,2-difluoropropane	NA
1,1,2-trichloro-2,3-difluoropropane	NA
1,2,2-trichloro-1,3-difluoropropane	NA
2,2,3-trichloro-1,1-difluoropropane	NA
1,1,1-trichloro-3,3-difluoropropane	NA
1,1,3-trichloro-1,3-difluoropropane	NA
1,1,2-trichloro-3,3-difluoropropane	NA
1,1,3-trichloro-2,3-difluoropropane	NA
1,2,3-trichloro-1,3-difluoropropane	NA



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Dichlorotrifluoropropane (HCFC-243)	116890-51-8 or 134237-43-7
2,2-dichloro-1,1,1-trifluoropropane	7126-01-4
1,1-dichloro-1,2,2-trifluoropropane	7125-99-7
1,2-dichloro-1,1,2-trifluoropropane	7126-00-3
2,3-dichloro-1,1,1-trifluoropropane (HCFC-243da)	338-75-0
1,3-dichloro-1,2,2-trifluoropropane	67406-68-2
1,1-dichloro-2,2,3-trifluoropropane	70192-70-0
3,3-dichloro-1,1,1-trifluoropropane	460-69-5
1,3-dichloro-1,1,2-trifluoropropane	NA
1,2-dichloro-1,1,3-trifluoropropane	NA
1,1-dichloro-1,2,3-trifluoropropane	NA
2,3-dichloro-1,1,2-trifluoropropane	NA
2,2-dichloro-1,1,3-trifluoropropane	NA
1,2-dichloro-1,2,3-trifluoropropane	NA
1,3-dichloro-1,1,3-trifluoropropane	NA
1,1-dichloro-1,3,3-trifluoropropane	NA
3,3-dichloro-1,1,2-trifluoropropane	NA
Dichlorotrifluoropropane (HCFC-243)	116890-51-8 or 134237-43-7
2,2-dichloro-1,1,1-trifluoropropane	7126-01-4
1,1-dichloro-1,2,2-trifluoropropane	7125-99-7
1,2-dichloro-1,1,2-trifluoropropane	7126-00-3
2,3-dichloro-1,1,1-trifluoropropane (HCFC-243da)	338-75-0
1,3-dichloro-1,2,2-trifluoropropane	67406-68-2
1,1-dichloro-2,2,3-trifluoropropane	70192-70-0
3,3-dichloro-1,1,1-trifluoropropane	460-69-5
1,3-dichloro-1,1,2-trifluoropropane	NA
1,2-dichloro-1,1,3-trifluoropropane	NA
1,1-dichloro-1,2,3-trifluoropropane	NA
2,3-dichloro-1,1,2-trifluoropropane	NA
2,2-dichloro-1,1,3-trifluoropropane	NA
1,2-dichloro-1,2,3-trifluoropropane	NA
1,3-dichloro-1,1,3-trifluoropropane	NA
1,1-dichloro-1,3,3-trifluoropropane	NA
3,3-dichloro-1,1,2-trifluoropropane	NA



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Dichlorotrifluoropropane (HCFC-243)	116890-51-8 or 134237-43-7
2,2-dichloro-1,1,1-trifluoropropane	7126-01-4
1,1-dichloro-1,2,2-trifluoropropane	7125-99-7
1,2-dichloro-1,1,2-trifluoropropane	7126-00-3
2,3-dichloro-1,1,1-trifluoropropane (HCFC-243da)	338-75-0
1,3-dichloro-1,2,2-trifluoropropane	67406-68-2
1,1-dichloro-2,2,3-trifluoropropane	70192-70-0
3,3-dichloro-1,1,1-trifluoropropane	460-69-5
1,3-dichloro-1,1,2-trifluoropropane	NA
1,2-dichloro-1,1,3-trifluoropropane	NA
1,1-dichloro-1,2,3-trifluoropropane	NA
2,3-dichloro-1,1,2-trifluoropropane	NA
2,2-dichloro-1,1,3-trifluoropropane	NA
1,2-dichloro-1,2,3-trifluoropropane	NA
1,3-dichloro-1,1,3-trifluoropropane	NA
1,1-dichloro-1,3,3-trifluoropropane	NA
3,3-dichloro-1,1,2-trifluoropropane	NA
2,3-dichloro-1,1,3-trifluoropropane	NA
1,3-dichloro-1,2,3-trifluoropropane	NA
Chlorotetrafluoropropane (HCFC-244)	NA
2-chloro-1,1,1,3-tetrafluoropropane (HCFC-244db)	117970-90-8
3-chloro-1,1,2,2-tetrafluoropropane	679-85-6
1-chloro-1,2,2,3-tetrafluoropropane	67406-66-0
1-chloro-1,1,3,3-tetrafluoropropane (HCFC-244flb)	2730-64-5
2-chloro-1,1,3,3-tetrafluoropropane (HCFC-244da)	19041-02-2
2-chloro-1,1,1,2-tetrafluoropropane (HCFC-244ba)	421-73-8
1-chloro-1,1,2,2-tetrafluoropropane	421-75-0
1-chloro-1,1,2,3-tetrafluoropropane	NA
3-chloro-1,1,1,2-tetrafluoropropane	NA
2-chloro-1,1,2,3-tetrafluoropropane	NA
3-chloro-1,1,1,3-tetrafluoropropane	NA
3-chloro-1,1,2,3-tetrafluoropropane	NA



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Trichlorofluoropropane (HCFC-251)	134190-51-5
(R,S)-(+-)-1,2,3-trichloro-1-fluoropropane	84847-80-3
(R,R)-(+-)	84847-79-0
[R(R,S)]	76985-34-7
[R(R,R)]	76985-33-6
(R,S)	67832-50-2
(R,R)	67832-44-4
1,2,3-trichloro-2-fluoropropane	7126-16-1
1,2,2-trichloro-3-fluoropropane	70192-89-1
1,1,3-trichloro-1-fluoropropane	818-99-5
1,1,3-trichloro-2-fluoropropane	76937-36-5
1,1,2-trichloro-1-fluoropropane	421-41-0
1,1,2-trichloro-2-fluoropropane	3175-24-4
1,1,1-trichloro-2-fluoropropane	NA
1,1,1-trichloro-3-fluoropropane	NA
1,1,2-trichloro-3-fluoropropane	NA
1,1,3-trichloro-3-fluoropropane	NA
1,2,2-trichloro-1-fluoropropane	NA
1,2,3-trichloro-1-fluoropropane	NA
Dichlorodifluoropropane (HCFC-252)	134190-52-6
1,1-dichloro-2,2-difluoropropane	1112-01-2
1,1-dichloro-3,3-difluoropropane	131404-17-6
1,1-dichloro-1,3-difluoropropane	121612-64-4
1,2-dichloro-1,1-difluoropropane	7126-15-0
1,2-dichloro-2,3-difluoropropane	70192-74-4
2,3-dichloro-1,1-difluoropropane	82578-00-5
1,3-dichloro-1,1-difluoropropane	819-00-1
1,3-dichloro-1,2-difluoropropane	111483-26-2
1,3-dichloro-2,2-difluoropropane	1112-36-3
1,1-dichloro-1,2-difluoropropane	NA
1,1-dichloro-2,3-difluoropropane	NA
1,2-dichloro-1,2-difluoropropane	NA
1,2-dichloro-1,3-difluoropropane	NA
1,3-dichloro-1,3-difluoropropane	NA
2,2-dichloro-1,1-difluoropropane	NA
2,2-dichloro-1,3-difluoropropane	NA



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Chlorotrifluoropropane (HCFC-253)	26588-23-8 or 134237-44-8
2-chloro-1,1,1-trifluoropropane	421-47-6
3-chloro-1,1,1-trifluoropropane	460-35-5
1-chloro-1,1,2-trifluoropropane	134251-05-1
2-chloro-1,1,2-trifluoropropane	69202-10-4
3-chloro-1,1,2-trifluoropropane	121612-65-5
1-chloro-1,1,3-trifluoropropane	83124-56-5
1-chloro-1,2,2-trifluoropropane	70192-76-6
1-chloro-2,2,3-trifluoropropane	56758-54-4
2-chloro-1,1,3-trifluoropropane	NA
3-chloro-1,1,3-trifluoropropane	NA
(1-chloro-1,3,3-trifluoropropane)	
1-chloro-1,2,3-trifluoropropane	NA
2-chloro-1,2,3-trifluoropropane	NA
Dichlorodifluoropropane (HCFC-261)	127404-11-9
1,1-dichloro-1-fluoropropane	7779-56-6
1,1-dichloro-2-fluoropropane	53074-31-0
1,1-dichloro-3-fluoropropane	53074-30-9
1,2-dichloro-1-fluoropropane	7799-55-5
1,2-dichloro-2-fluoropropane	420-97-3
1,2-dichloro-3-fluoropropane	453-01-0
1,3-dichloro-1-fluoropropane	83124-60-1
1,3-dichloro-2-fluoropropane	816-38-6
2,2-dichloro-1-fluoropropane	NA
Chlorodifluoropropane (HCFC-262)	NA
1-chloro-1,1-difluoropropane	421-02-3
2-chloro-1,1-difluoropropane	430-93-3
3-chloro-1,1-difluoropropane	83124-57-6
1-chloro-1,2-difluoropropane	430-96-6
1-chloro-2,3-difluoropropane	37161-81-2
2-chloro-1,3-difluoropropane	102738-79-4
1-chloro-2,2-difluoropropane	420-99-5
2-chloro-1,2-difluoropropane	NA
1-chloro-1,3-difluoropropane	NA
Chlorofluoropropane (HCFC-271)	NA
1-chloro-1-fluoropropane	430-55-7
1-chloro-2-fluoropropane	430-46-6
1-chloro-3-fluoropropane	462-38-4
2-chloro-1-fluoropropane	20372-78-5
2-chloro-2-fluoropropane	420-44-0



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