

# Safety Data Sheet

## Ardrox AV 25 HFO, Aerosol

Revision date : 2018/01/18  
Version: 1.1

Page: 1/10  
(11074145/SDU\_GEN\_US/EN)

### 1. Identification

**Product identifier used on the label**

**Ardrox AV 25 HFO, Aerosol**

**Recommended use of the chemical and restriction on use**

Recommended use\*: corrosion inhibitor

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

Chemetall U.S., Inc.  
675 Central Avenue  
New Providence, NJ 07974 – USA

Telephone: +1 800 526-4473  
E-mail address: michael.l.chang@basf.com

**Emergency telephone number**

Telephone: 800-424-9300, 1-703-527-3887

**Other means of identification**

---

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance	Aerosol containing a compressed gas
Colour	light brown
Odour	solvent-like
Hazard Summary	Flammable/Combustible! Harmful by inhalation and if swallowed. May cause eye and skin irritation. drying, irritation and dermatitis.

# Safety Data Sheet

## Ardrox AV 25 HFO, Aerosol

Revision date : 2018/01/18  
Version: 1.1



Page: 2/10  
(11074145/SDU\_GEN\_US/EN)

	Contents under pressure.
--	--------------------------

### GHS Classification

Flammable aerosols : Category 2  
Gases under pressure : Compressed gas

### GHS label elements

Hazard pictograms :  

Signal word : Warning

Hazard statements : Flammable aerosol.  
Contains gas under pressure; may explode if heated.

Precautionary statements : **Prevention:**  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Wash skin thoroughly after handling.  
**Response:**  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/ attention.  
**Storage:**  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

### Potential Health Effects

Inhalation : yes  
Skin : no  
Ingestion : yes  
Aggravated Medical Condition : None known.

### Experience with human exposure

Inhalation : Dizziness, Drowsiness

### Carcinogenicity:

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### ACGIH

No component of this product present at levels greater than or

# Safety Data Sheet

## Ardrox AV 25 HFO, Aerosol

Revision date : 2018/01/18  
Version: 1.1

Page: 3/10  
(11074145/SDU\_GEN\_US/EN)

	equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :

#### Hazardous components

Component	CAS-No.	Weight percent
Hydrotreated heavy naptha	64742-48-9	20 - 30
1-Methoxy-2-propanol	107-98-2	5 - 10

Unidentified ingredients are considered not hazardous, or not required to be listed under Federal Hazard Communication Standard (29CFR 1910.1200).

Specific chemical identity of composition has been withheld as a trade secret.

Exact percentage of composition has been withheld as a trade secret.

### SECTION 4. FIRST AID MEASURES

If inhaled	: Remove to fresh air. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists
In case of eye contact	: Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Seek medical advice.
If swallowed	: Rinse mouth. Drink plenty of water. Obtain medical attention.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during	: Cool closed containers exposed to fire with water spray.

# Safety Data Sheet

## Ardrox AV 25 HFO, Aerosol

Revision date : 2018/01/18  
Version: 1.1

Page: 4/10  
(11074145/SDU\_GEN\_US/EN)

- firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Use personal protective equipment.
- Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Unscrew closure slowly. Allow all pressure to escape through threads before removing closure. Avoid contact with skin and eyes. Do not breathe mist or vapor. Use with adequate ventilation. Wear personal protective equipment.(see section 8)
- Conditions for safe storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store indoors in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container out of sun and away from heat.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hydrotreated heavy naphtha	64742-48-9	TWA	500 ppm 2,000.000000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600.000000 mg/m3	OSHA P0
1-Methoxy-2-propanol	107-98-2	TWA	50 ppm	ACGIH

# Safety Data Sheet

## Ardrox AV 25 HFO, Aerosol

Revision date : 2018/01/18

Version: 1.1

Page: 5/10

(11074145/SDU\_GEN\_US/EN)

		STEL	100 ppm	ACGIH
		ST	150 ppm 540.000000 mg/m3	NIOSH REL
		TWA	100 ppm 360.000000 mg/m3	NIOSH REL
		TWA	100 ppm 360.000000 mg/m3	OSHA P0
		STEL	150 ppm 540.000000 mg/m3	OSHA P0
		PEL	100 ppm 360.000000 mg/m3	CAL PEL
		STEL	150 ppm 540.000000 mg/m3	CAL PEL

### Personal protective equipment

- Respiratory protection : If the occupational exposure limits cannot be met, suitable respirator equipment shall be worn.
- Eye protection : Chemical resistant goggles must be worn.
- Skin and body protection : Chemical resistant apron
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
Wear suitable gloves and eye/face protection.  
Wear suitable protective clothing.  
Wash hands before breaks and immediately after handling the product.  
Provide adequate ventilation.  
Do not inhale fumes.  
Keep away from food and drink.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Aerosol containing a compressed gas
- Colour : light brown
- Odour : solvent-like
- pH : No data available
- Freezing point : No data available
- Boiling point/boiling range : > 120 °C Active Ingredient  
-19 °C Propellant
- Flash point : 31 °C  
Method: closed cup  
Active Ingredient
- Upper explosion limit : No data available

# Safety Data Sheet

## Ardrox AV 25 HFO, Aerosol

Revision date : 2018/01/18

Version: 1.1

Page: 6/10  
(11074145/SDU\_GEN\_US/EN)

Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative density	: 0.83
Solubility(ies)	
Water solubility	: practically insoluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: not determined
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available

---

### SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks. Exposure to sunlight.
Incompatible materials	: Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	: Carbon oxides Hydrogen fluoride

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity	: Acute toxicity estimate : > 5,000.000000 mg/kg Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000.000000 mg/kg Method: Calculation method

##### Components:

##### **Hydrotreated heavy naptha:**

Acute oral toxicity	: LD50 Rat: > 10,000.000000 mg/kg
Acute dermal toxicity	: LD50 Rat: > 3,160.000000 mg/kg

##### **1-Methoxy-2-propanol:**

Acute oral toxicity	: LD50 Mouse: 11,700.000000 mg/kg LD50 Rat: 6,600.000000 mg/kg
---------------------	---

# Safety Data Sheet

## Ardrox AV 25 HFO, Aerosol

Revision date : 2018/01/18  
Version: 1.1

Page: 7/10  
(11074145/SDU\_GEN\_US/EN)

LD50 Rabbit: 5,700.000000 mg/kg

Acute inhalation toxicity : LC50 Rat: 10000 ppm  
Exposure time: 5 h

Acute dermal toxicity : LD50 Rabbit: 13,000.000000 mg/kg

### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

#### Components:

**Hydrotreated heavy naptha:**  
Result: Mild eye irritation

### Respiratory or skin sensitisation

No data available

### Germ cell mutagenicity

No data available

### Carcinogenicity

No data available

### Reproductive toxicity

No data available

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Aspiration toxicity

#### Components:

**Hydrotreated heavy naptha:**  
May be fatal if swallowed and enters airways.

#### Product:

Inhalation:

Target Organs:

Symptoms:

Remarks:

Dizziness, Drowsiness

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Bioaccumulative potential

# Safety Data Sheet

## Ardrox AV 25 HFO, Aerosol

Revision date : 2018/01/18  
Version: 1.1

Page: 8/10  
(11074145/SDU\_GEN\_US/EN)

### **Product:**

Partition coefficient: : Remarks: No data available  
n-octanol/water  
Other adverse effects

## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse, recycle or disposal.

## SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

#### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

### **National Regulations**

## SECTION 15. REGULATORY INFORMATION

**TSCA Status** : All components of this material comply with US TSCA requirements.

**OSHA Hazards** : Compressed Gas, Delayed target organ effects, Mild eye irritant  
**EPCRA - Emergency Planning and Community Right-to-Know Act**

**SARA 311/312 Hazards** : Sudden Release of Pressure Hazard  
Chronic Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **US State Regulations**

#### **Massachusetts Right To Know**

1-Methoxy-2-propanol

107-98-2

#### **Pennsylvania Right To Know**

Trans-1,3,3,3-tetrafluoroprop-1ene

29118-24-9



# Safety Data Sheet

## Ardrox AV 25 HFO, Aerosol

Revision date : 2018/01/18  
Version: 1.1

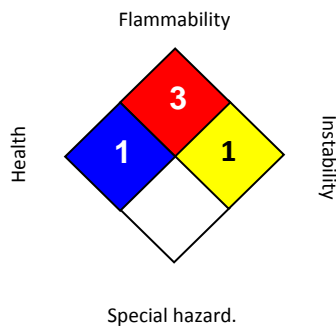
Page: 9/10  
(11074145/SDU\_GEN\_US/EN)

Hydrotreated heavy naptha	64742-48-9
Polyethylene homopolymer	9002-88-4
1-Methoxy-2-propanol	107-98-2
Trade Secret Registry	735517-5177P
Lanolin	8006-54-0

### New Jersey Right To Know

Trans-1,3,3,3-tetrafluoroprop-1ene	29118-24-9
Hydrotreated heavy naptha	64742-48-9
Polyethylene homopolymer	9002-88-4
1-Methoxy-2-propanol	107-98-2
Trade Secret Registry	735517-5177P

### NFPA:



### HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>1</b>

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Safety Glasses, Gloves, Apron

## SECTION 16. OTHER INFORMATION

### Further information

Version 1.0  
Revision Date 01/09/2018

### SDS Prepared by:

Chemetall (now part of BASF Group) NA Product Regulations  
SDS Prepared on: 2018/01/18

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER

# Safety Data Sheet

## Ardrox AV 25 HFO, Aerosol

Revision date : 2018/01/18

Page: 10/10

Version: 1.1

(11074145/SDU\_GEN\_US/EN)

ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

The content of this Safety Data Sheet (SDS) is based on an existing document from an acquired company with adaptations to Section I. The data is currently under validation.

END OF DATA SHEET