

**ARDROX<sup>®</sup> AV 15 AEROSOL**

Version 0.1

Revision Date 09/21/2015

Print Date 09/21/2015

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : ARDROX<sup>®</sup> AV 15 AEROSOL

Substance number : REL\_10466027

Chemical usage : Cleaning Compound, Corrosion inhibitor

**Manufacturer or supplier's details**

Company : Chemetall US, Inc.

Address : 675 Central Avenue  
New Providence NJ 07974

Telephone : (800) 526-4473

Telefax : (908) 464-4658

Emergency telephone no : CHEMTREC - 800-424-9300, 1-703-527-3887 (International)

**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. Causes irritation of eyes and skin. drying, irritation and dermatitis. Contents under pressure.

**GHS Classification**

Flammable aerosols : Category 2

Gases under pressure : Compressed gas

Eye irritation : Category 2B

**GHS Label element**

Hazard pictograms :



Signal word : Warning

Hazard statements : Flammable aerosol.

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Contains gas under pressure; may explode if heated.  
 Causes eye irritation.

Precautionary statements : **Prevention:**  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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 : yes

Ingestion : yes

Aggravated Medical Condition : None known.

**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**

Confirmed animal carcinogen with unknown relevance to humans

Aliphatic mineral spirits 64742-88-7

Cyclohexanone 108-94-1

**OSHA**

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.

**NTP**

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.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture :

**Hazardous components**

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Component	CAS-No.	Weight percent
1,1,1,2-Tetrafluoroethane	811-97-2	30 - 50
Hydrotreated heavy naptha	64742-48-9	20 - 30
Aliphatic mineral spirits	64742-88-7	1 - 5

Unidentified ingredients are considered not hazardous 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 : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Further information : Closed containers may explode when exposed to heat.  
Cool containers / tanks with water spray.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ventilate the area.
- Methods and materials for containment and cleaning up : Wear personal protective equipment.  
Clean up with inert absorbant material.  
Remove all heat and ignition sources.  
Use nonsparking equipment when cleaning up flammable

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spill.

Keep in suitable, closed containers for disposal.

Additional advice : Never return spills in original containers for re-use.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Unscrew closure slowly. Allow all pressure to escape through threads before removing closure

 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
1,1,1,2-Tetraflouroethane	811-97-2	TWA	1,000 ppm	US WEEL
Hydrotreated heavy naptha	64742-48-9	TWA	500 ppm 2,000.000000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600.000000 mg/m3	OSHA P0
Aliphatic mineral spirits	64742-88-7	TWA	500 ppm 2,000.000000 mg/m3	OSHA Z-1
		TWA	200.000000 mg/m3 (as total hydrocarbon vapor)	ACGIH
		TWA	400 ppm 1,600.000000 mg/m3	OSHA P0
Cyclohexanone	108-94-1	TWA	20 ppm	ACGIH
		STEL	50 ppm	ACGIH
		TWA	25 ppm 100.000000 mg/m3	NIOSH REL
		TWA	50 ppm 200.000000 mg/m3	OSHA Z-1
		TWA	25 ppm	OSHA P0

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			100.000000 mg/m <sup>3</sup>	
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**Personal protective equipment**

- Respiratory protection : If occupational exposure limits are exceeded, proper control and protection measures should be implemented.
- Hand protection  
Remarks : Impervious gloves
- Eye protection : Safety glasses with side-shields
- Skin and body protection : Rubber or plastic 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 : not applicable
- Freezing point : no data available
- Boiling point/boiling range : not applicable
- Flash point :  
no data available
- Evaporation rate : GLP: No information available.
- Upper explosion limit : 7.00 %(V)
- Lower explosion limit : 0.60 %(V)
- Vapour pressure : no data available
- Relative density : 0.92
- Bulk density : 7.66 lb/gal
- Solubility(ies)
- Water solubility : insoluble
- Partition coefficient: n-octanol/water : no data available
- Auto-ignition temperature : No data available

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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

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Fluorocarbons  
Barium oxide

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

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

**Components:****1,1,1,2-Tetraflouroethane:**

Acute inhalation toxicity : LC50 rat: 1500 g/m<sup>3</sup>  
Exposure time: 4 h

**Hydrotreated heavy naptha:**

Acute oral toxicity : LD50 rat: > 10,000.000000 mg/kg

Acute dermal toxicity : LD50 rat: > 3,160.000000 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

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**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**

no data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

no data available

**Bioaccumulative potential****Product:**

Partition coefficient: n-octanol/water : Remarks: no data available

**Components:****1,1,1,2-Tetraflouroethane :**Partition coefficient: n-octanol/water : log Pow: 1.06 (25 °C)  
Method: OECD Test Guideline 107**Other adverse effects**

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**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.

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**SECTION 14. TRANSPORT INFORMATION****International regulation**

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

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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, Mild eye irritant  
**EPCRA - Emergency Planning and Community Right-to-Know Act**

Cyclohexanone	108-94-1	5,000	
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**SARA 311/312 Hazards** : Sudden Release of Pressure Hazard

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

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:  
 Organic acid and barium soap 25619-56-1

**US State Regulations**
**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

1,1,1,2-Tetraflouroethane	811-97-2
Hydrotreated heavy naptha	64742-48-9
Naphtha (petroleum) light steam-cracked	68131-99-7
Organic acid and barium soap	25619-56-1
Lanolin	8006-54-0
Aliphatic mineral spirits	64742-88-7
Cyclohexanone	108-94-1

**New Jersey Right To Know**

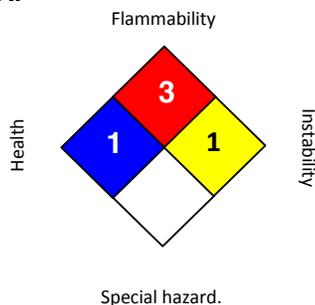
1,1,1,2-Tetraflouroethane	811-97-2
Hydrotreated heavy naptha	64742-48-9
Naphtha (petroleum) light steam-cracked	68131-99-7
Organic acid and barium soap	25619-56-1
Calcium dinonylnaphthalene sulfonate	57855-77-3

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**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

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**SECTION 16. OTHER INFORMATION**
**Further information**

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Chemetall US, Inc. warrants that the products described herein will conform with its published specifications.

The products supplied by Chemetall and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of the Chemetall materials for their own particular purpose. Since buyer's conditions of use of products are beyond Chemetall's control, Chemetall does not warrant any recommendations and information for the use of such products. CHEMETALL DISCLAIMS ALL OTHER WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE USE OF ITS PRODUCTS.