

# Safety Data Sheet

## Ardrox® AV 25

Revision date : 2023/06/09  
Version: 4.0

Page: 1/11  
(30690979/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Ardrox® AV 25

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

Recommended use\*: Treatment of metal surfaces.  
Recommended use\*: corrosion inhibitor  
Unsuitable for use: Uses other than recommended

\* 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  
+1 800 526-4473  
sds.na-chemetall@basf.com

#### Emergency telephone number

24 Hour Emergency Response Information  
CHEMTREC: 800-424-9300, +1-703-527-3887

#### Other means of identification

Chemical family: organic compounds, polymers, organic solvent

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

#### Classification of the product

Skin Sens.	1	Skin sensitization
STOT SE	3 (Vapours may cause drowsiness and dizziness.)	Specific target organ toxicity — single exposure

# Safety Data Sheet

## Ardrox® AV 25

Revision date: 2023/06/09  
Version: 4.0

Page: 2/11  
(30690979/SDS\_GEN\_US/EN)

Flam. Liq.	3	Flammable liquids
Repr.	2 (unborn child)	Reproductive toxicity

### Label elements

Pictogram:



Signal Word:  
Warning

Hazard Statement:

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging the unborn child.

Precautionary Statements (Prevention):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P261	Avoid breathing mist or vapour or spray.
P242	Use non-sparking tools.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P243	Take action to prevent static discharges.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing should not be allowed out of the workplace.
P201	Obtain special instructions before use.

Precautionary Statements (Response):

P312	Call a POISON CENTER or physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical attention.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary Statements (Disposal):

# Safety Data Sheet

## Ardrox® AV 25

Revision date: 2023/06/09  
Version: 4.0

Page: 3/11  
(30690979/SDS\_GEN\_US/EN)

P501 Dispose of contents and container to hazardous or special waste collection point.

### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

## 3. Composition / Information on Ingredients

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

CAS Number: 64742-48-9

Content (W/W):  $\geq 50.0$  -  $< 75.0\%$

Synonym: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Polyethylene

CAS Number: 9002-88-4

Content (W/W):  $\geq 15.0$  -  $< 20.0\%$

Synonym: No data available.

Sulfonic acids, petroleum, calcium salts

CAS Number: 61789-86-4

Content (W/W):  $\geq 3.0$  -  $< 5.0\%$

Synonym: Total Base Number (TBN)  $< 300$ ; H317 1B,  $\geq 10$  - 100%

2-Propanol, 1-propoxy-

CAS Number: 1569-01-3

Content (W/W):  $\geq 1.0$  -  $< 3.0\%$

Synonym: 1-Propoxy-2-propanol; 1,2-Propylene glycol 1-propyl ether

Distillates (petroleum), hydrotreated heavy paraffinic

CAS Number: 64742-54-7

Content (W/W):  $\geq 1.0$  -  $< 3.0\%$

Synonym: No data available.

Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3- propanediyl ester

CAS Number: 6846-50-0

Content (W/W):  $\geq 1.0$  -  $< 3.0\%$

Synonym: 2-Methylpropanoic acid 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester; 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate

## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

# Safety Data Sheet

## Ardrox® AV 25

Revision date: 2023/06/09

Version: 4.0

Page: 4/11

(30690979/SDS\_GEN\_US/EN)

### If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

### If on skin:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

### If in eyes:

If symptoms persist, seek medical advice. Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution.

### If swallowed:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

## Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

*Information on: 2-Propanol, 1-propoxy-*

*Symptoms: Overexposure may cause: Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

*Information on: Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3- propanediyl ester*

*Symptoms: Overexposure may cause: nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

*Information on: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics*

*Symptoms: Overexposure may cause: nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps, Ingestion may provoke the following symptoms: asphyxia, dyspnea, choking, respiratory arrest, circulatory collapse, death*

## Indication of any immediate medical attention and special treatment needed

### Note to physician

Antidote: No known specific antidote.

Treatment: Symptomatic treatment (decontamination, vital functions).

## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

### Special hazards arising from the substance or mixture

# Safety Data Sheet

## Ardrox® AV 25

Revision date: 2023/06/09

Version: 4.0

Page: 5/11

(30690979/SDS\_GEN\_US/EN)

Hazards during fire-fighting:

Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Appropriate breathing apparatus may be required.

### Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

### Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

### Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

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## 7. Handling and Storage

### Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

### Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

# Safety Data Sheet

## Ardrox® AV 25

Revision date: 2023/06/09  
Version: 4.0

Page: 6/11  
(30690979/SDS\_GEN\_US/EN)

Suitable materials for containers: Stainless steel 1.4301 (V2), Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

Storage stability:  
Storage temperature: 15 - 35 °C

### 8. Exposure Controls/Personal Protection

#### Components with occupational exposure limits

Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH, US: OSHA Z1:	TWA value 5 mg/m <sup>3</sup> Inhalable fraction ; PEL 5 mg/m <sup>3</sup> Mist ;
Polyethylene	OSHA Z1: OSHA Z1:	PEL 5 mg/m <sup>3</sup> Respirable fraction ; PEL 15 mg/m <sup>3</sup> Total dust ;

#### Personal protective equipment

##### **Respiratory protection:**

Respiratory protection required if exposure limit (if available) may be exceeded

##### **Hand protection:**

Chemical resistant protective gloves (EN ISO 374-1), nitrile rubber (NBR) - 0.4 mm coating thickness, Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1, The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties)., The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

##### **Eye protection:**

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

##### **Body protection:**

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

##### **General safety and hygiene measures:**

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

# Safety Data Sheet

## Ardrox® AV 25

Revision date: 2023/06/09

Version: 4.0

Page: 7/11

(30690979/SDS\_GEN\_US/EN)

### 9. Physical and Chemical Properties

Form:	liquid	
Odour:	No data available.	
Odour threshold:	No applicable information available.	
Colour:	beige	
pH value:	substance/mixture is non-polar/aprotic	
Melting point:	not determined	
Freezing point:	not determined	
Boiling range:	not determined	
onset of boiling:	> 150 °C	(calculated)
Sublimation point:	No applicable information available.	
Flash point:	40 °C	(ISO 3679)
Flammability:	Flammable liquid and vapour.	
Lower explosion limit:	not determined	
Upper explosion limit:	No applicable information available.	
Autoignition:	No applicable information available.	
Vapour pressure:	( 20 °C) not determined	
Density:	0.820 g/cm <sup>3</sup> ( 20 °C)	
Relative density:	No applicable information available.	
Vapour density:	Heavier than air.	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	No applicable information available.	
Viscosity, kinematic:	6.0 mm <sup>2</sup> /s ( 20 °C)	
Solubility in water:	insoluble	
Miscibility with water:	immiscible	
Solubility (quantitative):	No applicable information available.	
Solubility (qualitative):	No applicable information available.	
Molar mass:	No applicable information available.	
Evaporation rate:	No applicable information available.	

### 10. Stability and Reactivity

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:  
not fire-propagating

#### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### Possibility of hazardous reactions

Vapours may form ignitable mixture with air.

#### Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid heat. Avoid direct sunlight. Avoid freezing.

# Safety Data Sheet

## Ardrox® AV 25

Revision date: 2023/06/09

Version: 4.0

Page: 8/11

(30690979/SDS\_GEN\_US/EN)

### Incompatible materials

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

### Hazardous decomposition products

Decomposition products:

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Based on available data, the classification criteria are not met.

#### Oral

Type of value: ATE

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Inhalation

Type of value: ATE

Value: > 20 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Dermal

Type of value: ATE

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Assessment other acute effects

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

#### Irritation / corrosion

Assessment of irritating effects: Based on available data, the classification criteria are not met.

*Information on: 2-Propanol, 1-propoxy-*



# Safety Data Sheet

## Ardrox® AV 25

Revision date: 2023/06/09

Version: 4.0

Page: 9/11

(30690979/SDS\_GEN\_US/EN)

*Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.*  
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### Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

### Aspiration Hazard

No aspiration hazard expected.

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

### Genetic toxicity

Assessment of mutagenicity: Based on available data, the classification criteria are not met.

### Carcinogenicity

Assessment of carcinogenicity: Based on available data, the classification criteria are not met.

### Reproductive toxicity

Assessment of reproduction toxicity: Based on available data, the classification criteria are not met.

### Teratogenicity

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

*Information on: Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3- propanediyl ester*

*Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.*  
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## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways.

Based on available data, the classification criteria are not met.

### Persistence and degradability

#### Assessment biodegradation and elimination (H<sub>2</sub>O)

No data available concerning biodegradation and elimination.

### Bioaccumulative potential

#### Bioaccumulation potential

No data available.

### Mobility in soil

Assessment transport between environmental compartments

# Safety Data Sheet

## Ardrox® AV 25

Revision date: 2023/06/09

Version: 4.0

Page: 10/11

(30690979/SDS\_GEN\_US/EN)

No data available.

### 13. Disposal considerations

#### Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

#### Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

### 14. Transport Information

#### Land transport

USDOT

Hazard class: 3  
Packing group: III  
ID number: UN 1139  
Hazard label: 3  
Proper shipping name: COATING SOLUTION

#### Sea transport

IMDG

Hazard class: 3  
Packing group: III  
ID number: UN 1139  
Hazard label: 3  
Marine pollutant: NO  
Proper shipping name: COATING SOLUTION

#### Air transport

IATA/ICAO

Hazard class: 3  
Packing group: III  
ID number: UN 1139  
Hazard label: 3  
Proper shipping name: COATING SOLUTION

### 15. Regulatory Information

#### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### CERCLA RQ

100 LBS

#### CAS Number

64742-48-9

#### Chemical name

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics,

# Safety Data Sheet

## Ardrox® AV 25

Revision date: 2023/06/09

Version: 4.0

Page: 11/11

(30690979/SDS\_GEN\_US/EN)

< 2% aromatics

### State regulations

#### State RTK

	<u>CAS Number</u>	<u>Chemical name</u>
NJ	64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic
	64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
PA	8006-54-0	lanolin
	64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic

#### **NFPA Hazard codes:**

Health: 2      Fire: 3      Reactivity: 1      Special:

#### **HMIS III rating**

Health: 2<sup>a</sup>      Flammability: 3      Physical hazard: 1

## 16. Other Information

#### **SDS Prepared by:**

Chemetall (now part of BASF Group) NA Product Regulations

SDS Prepared on: 2023/06/09

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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