

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Ardrox AV 25 (1 L)

Product code : 000000000050589271

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Corrosion inhibitor
Substance/Mixture

Recommended restrictions : Uses other than recommended
on use

1.3 Details of the supplier of the safety data sheet

Company:
Chemetall Ltd.
Napier House, Auckland Park
MK1 1BU Bletchley, Milton Keynes
Great Britain

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

+44 1908 649333
sds.global-chemetall@basf.com

Telephone: +44 1908 649333
E-mail address: sds.global-chemetall@basf.com

1.4 Emergency telephone

International emergency number:
Telephone: +49 180 2273-112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 3

H226: Flammable liquid and vapor.

Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H336 May cause drowsiness or dizziness.

Precautionary Statements :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing mist or vapors.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Hazardous ingredients which must be listed on the label:

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

Additional Labeling

EUH208 Contains Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction.

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version 2.0 Revision Date: 20.01.2025 SDS Number: 000000000050589271 Date of last issue: 10.05.2024
Date of first issue: 14.07.2023

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : organic compounds
polymers
organic solvent

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version 2.0 Revision Date: 20.01.2025 SDS Number: 000000000050589
271 Date of last issue: 10.05.2024
Date of first issue: 14.07.2023

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	64742-48-9 265-150-3 649-327-00-6 01-2119463258-33	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304	>= 50 - < 75
Sulfonic acids, petroleum, calcium salts	61789-86-4 263-093-9 01-2119488992- 18, 01- 2119488992-18	Skin Sens. 1B; H317 specific concentration limit Skin Sens. 1B; H317 >= 10 %	>= 3 - < 5
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1	Asp. Tox. 1; H304	>= 2.5 - < 3

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758

**Ardrox AV 25 (1 L)**

Version 2.0 Revision Date: 20.01.2025 SDS Number: 000000000050589271 Date of last issue: 10.05.2024
Date of first issue: 14.07.2023

	649-467-00-8 01-2119484627-25		
1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	6846-50-0 229-934-9 UK-20-9702550300-0-0000 UK-20-0537843089-5-0000 UK-20-9642318150-0-0000	Repr. 2; H361d Aquatic Chronic 3; H412	>= 1 - < 2
1-Propoxypropan-2-ol	1569-01-3 216-372-4 UK-20-9702550300-0-0000	Flam. Liq. 3; H226 Eye Irrit. 2; H319	>= 1 - < 2

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

	UK-20- 0537843089-5- 0000		
	UK-20- 9642318150-0- 0000		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : First aid personnel should pay attention to their own safety.

If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
Immediately remove contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical attention.

Move out of dangerous area.

Never give anything by mouth to an unconscious person.

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Chemetall
expect more ⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

- If inhaled : If symptoms persist, call a physician.
If breathed in, move person into fresh air.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : If symptoms persist, call a physician.
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Do NOT use solvents or thinners.
- In case of eye contact : If symptoms persist, call a physician.
In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If swallowed : If symptoms persist, call a physician.

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Chemetall
expect more ⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Do NOT induce vomiting.

Rinse mouth.

4.2 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.

Risks : May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No known specific antidote.
Treat symptomatically.

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray jet
Dry powder
Alcohol-resistant foam
Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see section 10).

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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expect more⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Further information : In the event of fire, cool tanks with water spray.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid breathing vapours.

Keep away from sources of ignition.

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

For non-emergency personnel:

For emergency responders:

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Use personal protective equipment.

Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Ensure adequate ventilation.

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).

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Chemetall
expect more ⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

6.4 Reference to other sections

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on 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.

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.

Do not breathe vapors or spray mist.

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Advice on 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. The relevant fire protection measures should be noted. Use explosion-proof equipment. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep away from heat. 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. Keep

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Chemetall
expect more ⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

in a dry, cool and well-ventilated place.

Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Storage period : 36 Months

Recommended storage temperature : > 4 °C

7.3 Specific end use(s)

Specific use(s) : Please refer to the technical leaflet for further information.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Chemetall
expect more⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation.

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Hand protection

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. 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). Gloves should be discarded and replaced if there is any

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Chemetall
expect more⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

	indication of degradation or chemical breakthrough. Preventive skin protection
Skin and body protection	: Chemical resistant protective clothing according to DIN EN 13034 (Type 6)
Respiratory protection	: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Filter type	: Organic vapor Type (A)
Protective measures	: Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Chemetall
expect more ⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Color	:	beige
Odor	:	characteristic
pH	:	substance/mixture is non-polar/aprotic
Melting point/ range	:	not determined
Boiling point/boiling range	:	155 - 200 °C Method: calculated
Flash point	:	44 °C Method: ISO 3679
Lower explosion limit / Lower flammability limit	:	> 35 g/m ³

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Chemetall
expect more ⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Vapor pressure :
not determined

Relative vapor density : Heavier than air.

Relative density : No data available

Density : 0.820 g/cm³ (20 °C)

Solubility(ies)
Water solubility : not determined

Partition coefficient: n-
octanol/water : not applicable for mixtures

Autoignition temperature : > 200.00 °C

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Chemetall
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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.

Viscosity
Viscosity, kinematic : (23 °C)
not determined
37.5 mm²/s (40 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Flammability (liquids) : Flammable liquid and vapour.

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



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expect more ⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Self-heating substances : The substance or mixture is not classified as self heating.

Metal corrosion rate : Not corrosive to metals.

Particle size : The substance / product is marketed or used in a non solid or granular form.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form ignitable mixture with air.

10.4 Conditions to avoid

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Conditions to avoid : Avoid direct sunlight.
Protect from frost.
Heat, flames and sparks.
Heat.

10.5 Incompatible materials

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified due to lack of data.

Skin corrosion/irritation

Not classified due to lack of data.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Chemetall
expect more ⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Serious eye damage/eye irritation

Not classified due to lack of data.

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

SECTION 12: Ecological information

12.1 Toxicity

No data available

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Chemetall
expect more⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

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

Partition coefficient: n- : log Pow: 5 - 6.7
octanol/water

log Pow: 4.76 (25 °C)

GLP: no

Distillates (petroleum), hydrotreated heavy paraffinic:

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

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Partition coefficient: n- : log Pow: 4.04 - 4.49 (25 °C)
octanol/water

1-Propoxypropan-2-ol:

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Chemetall
expect more⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Partition coefficient: n-
octanol/water : log Pow: 0.621 (20 °C)
pH: 7

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Chemetall
expect more ⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Do not discharge into drains/surface waters/groundwater.
- Observe national and local legal requirements.
- Contaminated packaging : Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC
- Packaging that is not properly emptied must be disposed of as the unused product.

SECTION 14: Transport information

14.1 UN number

- | | |
|-----|-----------|
| ADN | : UN 1139 |
| ADR | : UN 1139 |

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Chemetall
expect more ⁺

Ardrox AV 25 (1 L)

Version 2.0 Revision Date: 20.01.2025 SDS Number: 000000000050589 271 Date of last issue: 10.05.2024
Date of first issue: 14.07.2023

RID : UN 1139

IMDG : UN 1139

IATA : UN 1139

14.2 UN proper shipping name

ADN : COATING SOLUTION

ADR : COATING SOLUTION

RID : COATING SOLUTION

IMDG : COATING SOLUTION

IATA : COATING SOLUTION

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 3	
ADR	: 3	

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Chemetall
expect more ⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

RID : 3

IMDG : 3

IATA : 3

14.4 Packing group

ADN

Packing group : III

Classification Code : F1

Hazard Identification
Number : 30

Labels : 3

ADR

Packing group : III

Classification Code : F1

Hazard Identification
Number : 30

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Chemetall
expect more ⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : III
Classification Code : F1
Hazard Identification : 30
Number

Labels : 3

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo : 366
aircraft)

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Chemetall
expect more⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Packing instruction (LQ)	: Y344
Packing group	: III
Labels	: Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft)	: 355
Packing instruction (LQ)	: Y344
Packing group	: III
Labels	: Flammable liquid

14.5 Environmental hazards

ADN

Environmentally hazardous	: no
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ADR

Environmentally	: no
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SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Chemetall
expect more⁺

Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

hazardous

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the following entries should be

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

considered:

Number on list 3

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EC) on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) P5c FLAMMABLE LIQUIDS

34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel)

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

Volatile organic compounds (VOC) content: 61.5 %

Volatile organic compounds (VOC) content: 504.30 g/l

VOC content excluding water

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

Assessment of safe use has been performed for the mixture and the result is documented in section 7 and 8 of the SDS

SECTION 16: Other information

Full text of H-Statements

- H226 : Flammable liquid and vapor.
- H304 : May be fatal if swallowed and enters airways.
- H317 : May cause an allergic skin reaction.
- H319 : Causes serious eye irritation.
- H336 : May cause drowsiness or dizziness.

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

H361d : Suspected of damaging the unborn child.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard
Asp. Tox. : Aspiration hazard
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Repr. : Reproductive toxicity
Skin Sens. : Skin sensitization
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : For multi-pack systems observe material safety data sheets of all components.
Restricted to professional users.

Classification of the mixture:

Classification procedure:

SAFETY DATA SHEET

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1907/2006, as amended by UK REACH
Regulations SI 2019/758



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Ardrox AV 25 (1 L)

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2024
2.0	20.01.2025	000000000050589 271	Date of first issue: 14.07.2023

Flam. Liq. 3	H226	Based on product data or assessment
STOT SE 3	H336	Calculation method

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