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1. Identification

Product identifier used on the label

Ardrox AV 30 Aerosol (DME)

Recommended use of the chemical and restriction on use

Recommended use*: corrosion inhibitor

Unsuitable for use: Uses other than recommended

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION 100 Park Avenue Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: organic

2. Hazards Identification

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

Classification of the product

Skin Corr./Irrit. 2 Skin corrosion/irritation

Eye Dam./Irrit. 2A Serious eye damage/eye irritation

STOT SE 3 (Vapours may cause Specific target organ toxicity — single exposure

drowsiness and dizziness.)

^{*} 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.

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STOT RE 1 Specific target organ toxicity — repeated

exposure

Aquatic Acute 2 Hazardous to the aquatic environment - acute Aquatic Chronic 3 Hazardous to the aquatic environment - chronic

Flam. Aerosol 1 Flammable aerosols Flam. Aerosol 1 Flammable aerosols

Label elements

Pictogram:





Signal Word: Danger

Hazard Statement:

H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust or mist.

P270 Do not eat, drink or smoke when using this product.
P211 Do not spray on an open flame or other ignition source.

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.

P264 Wash contaminated body parts thoroughly after handling.

P280 Wear protective gloves, protective clothing and eye protection or face

protection.

P273 Avoid release to the environment.
P261 Avoid breathing mist or vapour or spray.

Precautionary Statements (Response):

Call a POISON CENTER or physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell. P337 + P313 If eye irritation persists: Get medical attention.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P332 + P313 If skin irritation occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

Precautionary Statements (Storage):

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P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C/

122°F.

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

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste

collection point.

Hazards not otherwise classified

Container is under pressure. Protect from sun and temperatures above 50 °C. Do not open with force or incinerate even after use. Do not spray into flames or onto glowing objects.

3. Composition / Information on Ingredients

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

1-methoxypropan-2-ol

CAS Number: 107-98-2

Content (W/W): >= 10.0 - < 15.0%

Synonym: 1-Methoxy-2-propanol; Propylene glycol monomethyl ether

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

CAS Number: 64742-48-9 Content (W/W): >= 7.0 - < 10.0%

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

aromatics

Hydrocarbons, C10 - C13, n-alkanes, isoalkanes, cyclics, < 2

CAS Number: 64742-48-9 Content (W/W): >= 7.0 - < 10.0% Synonym: H304-EUH066

Calcium bis(dinonylnaphthalenesulphonate)

CAS Number: 57855-77-3 Content (W/W): >= 5.0 - < 7.0% Synonym: No data available.

Distillates (petroleum), hydro- treated light; Kerosine

CAS Number: 64742-47-8
Content (W/W): >= 3.0 - < 5.0%
Synonym: No data available.

cyclohexanone

CAS Number: 108-94-1

Content (W/W): >= 1.0 - < 3.0% Synonym: No data available.

Distillates (petroleum), hydrotreated heavy paraffinic

CAS Number: 64742-54-7 Content (W/W): >= 1.0 - < 3.0% Synonym: No data available.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromat

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> CAS Number: 64742-82-1 Content (W/W): >= 1.0 - < 3.0%

Synonym: R10-65-48/20-66-67-51/53; H226-304-336-372-411-EUH066

Distillates (petroleum), hydrotreated middle

CAS Number: 64742-46-7 Content (W/W): >= 1.0 - < 3.0%

Synonym: Distillates, petroleum, hydrotreated middle

Polyethylene

CAS Number: 9002-88-4 Content (W/W): >= 1.0 - < 3.0% Synonym: No data available.

Hydrocarbons, C10, aromatics, < 1% naphthalene

CAS Number: 64742-94-5 Content (W/W): >= 1.0 - < 3.0% Synonym: No data available.

Ethanol, 2,2'-(9-octadecenylimino)bis-

CAS Number: 25307-17-9 Content (W/W): >= 0.3 - < 1.0% Synonym: No data available.

4. First-Aid Measures

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). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

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:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

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

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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: 1-methoxypropan-2-ol

Symptoms: Overexposure may cause:, lacrimation

Information on: cyclohexanone

Symptoms: Overexposure may cause:, unconsciousness, headache

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

Information on: Calcium bis(dinonylnaphthalenesulphonate)

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

Information on: Distillates (petroleum), hydro-treated light; Kerosine

Symptoms: Overexposure may cause:, Eye irritation, skin irritation, erythema, nausea, headache,

vomiting, dizziness, diarrhea, abdominal cramps

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

Hazards during fire-fighting:

carbon oxides

Cool containers exposed to fire with water. Decomposition, pressure build-up and bursting of containers may occur.

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 diposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

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. Handle with care - avoid bumps, friction and impact. 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.

Suitable materials for containers: tinned carbon steel (Tinplate), Carbon steel (Iron), Paper/Fibreboard

Further information on storage conditions: Keep container dry. 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.

Storage stability:

Storage temperature: < 50 °C

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8. Exposure Controls/Personal Protection

Components with occupational exposure limits

1-methoxypropan-2-ol ACGIH, US: TWA value 50 ppm; ACGIH, US: STEL value 100 ppm; ACGIH, US: TWA value 20 ppm; cyclohexanone ACGIH, US: STEL value 50 ppm; OSHA Z1: PEL 50 ppm 200 mg/m3; ACGIH, US: Skin Designation; Danger of cutaneous absorption ACGIH, US: Skin Designation; Danger of cutaneous absorption Distillates (petroleum), ACGIH, US: TWA value 5 mg/m3 Inhalable fraction; OSHA Z1: hydrotreated heavy PEL 5 mg/m3 Mist; paraffinic Polyethylene OSHA Z1: PEL 5 mg/m3 Respirable fraction:

Personal protective equipment

Respiratory protection:

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

OSHA Z1:

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1), nitrile rubber (NBR) - 0.4 mm coating thickness, butyl rubber (butyl) - 0.7 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).

PEL 15 mg/m3 Total dust:

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.

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9. Physical and Chemical Properties

Form: aerosol

Odour:

under pressure No data available.

Colour: light brown

pH value: substance/mixture is a gas

Melting point: not determined Freezing point: not determined

onset of boiling: 155 °C

The data given are those of the

active ingredient.

Boiling range: No data available.

Sublimation point: No applicable information available.

Flash point: 31 °C (ISO 3679)

The data given are those of the active

ingredient.

Flammability: Extremely flammable aerosol.

Lower explosion limit: not determined

Upper explosion limit: No applicable information available.

Autoignition: not determined

Vapour pressure: (20 °C)

not determined

Density: 0.880 g/cm3

(20 °C)

The data given are those of the active

ingredient.

Relative density:

Vapour density:

No applicable information available.

No applicable information available.

No applicable information available.

octanol/water (log Pow):

Viscosity, dynamic: No applicable information available.

Viscosity, kinematic: (20 °C)

not applicable

Solubility in water: insoluble Miscibility with water: immiscible

Solubility (quantitative):
Solubility (qualitative):
Molar mass:
No applicable information available.
No applicable information available.
No applicable information available.
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

Risk of bursting. Vapours may form explosive mixture with air.

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Conditions to avoid

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

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:

Possible 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.

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: 39,573 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: 871 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: 87,032 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: Eye contact causes irritation. Skin contact causes irritation.

Information on: cyclohexanone

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Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes.

Information on: Ethanol, 2,2'-(9-octadecenylimino)bis-

Assessment of irritating effects: Corrosive! Damages skin and eyes.

Information on: Calcium bis(dinonylnaphthalenesulphonate)

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

Information on: Distillates (petroleum), hydro-treated light; Kerosine

Assessment of irritating effects: Skin contact causes irritation. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Sensitization

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

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure to small quantities may affect certain organs.

Information on: 1-methoxypropan-2-ol

Assessment of repeated dose toxicity: May affect the liver as indicated in animal studies. The substance may cause damage to the kidney after repeated inhalation. Effect found in rodents only. The relevance to humans is questionable.

Information on: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromat

Assessment of repeated dose toxicity: Effects on the kidney of male rats were detected after repeated exposure. These effects are specific for the male rat and are known to be of no relevance to humans. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

EU-classification Repeated exposure to small quantities may affect certain organs. Damages the central nerve system.

Information on: Distillates (petroleum), hydro- treated light; Kerosine

Assessment of repeated dose toxicity: Dermatitis The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

<u>Genetic toxicity</u>

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.

Information on: cyclohexanone

Assessment of carcinogenicity: In long-term animal studies in which the substance was given in the drinking water in high doses, a carcinogenic effect was observed. Due to the rat-specific mode of

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action, no carcinogenic effects are expected in man. Hence, the findings are of low relevance for humans. IARC Group 3 (not classifiable as to human carcinogenicity).

Reproductive toxicity

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

Information on: 1-methoxypropan-2-ol

Assessment of reproduction toxicity: The potential to impair fertility cannot be excluded when given at maternally toxic doses.

Teratogenicity

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

Information on: cyclohexanone

Assessment of teratogenicity: The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Harmful to aquatic life with long lasting effects. Toxic to aquatic life. There are no test results available for this product. Do not allow to enter drains or waterways.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

No data available concerning biodegradation and elimination.

Bioaccumulative potential

Bioaccumulation potential

No data available.

Mobility in soil

Assessment transport between environmental compartments

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.

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14. Transport Information

Land transport

USDOT

Hazard class: 2.1
ID number: UN 1950
Hazard label: 2.1

Proper shipping name: AEROSOLS

Sea transport

IMDG

Hazard class: 2.1
ID number: UN 1950
Hazard label: 2.1
Marine pollutant: NO

Proper shipping name: AEROSOLS

Air transport

IATA/ICAO

Hazard class: 2.1
ID number: UN 1950
Hazard label: 2.1

Proper shipping name: AEROSOLS, FLAMMABLE

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.

<u>CERCLA RQ</u>	CAS Number	<u>Chemical name</u>
100 LBS	107-98-2; 115-10-	1-methoxypropan-2-ol; dimethyl ether; Hydrocarbons,
	6; 64742-48-9;	C10 - C13, n-alkanes, isoalkanes, cyclics, < 2;
	64742-47-8;	Distillates (petroleum), hydro- treated light; Kerosine;
	64742-82-1;	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics,
	64742-94-5	aromat; Hydrocarbons, C10, aromatics, < 1% naphthalene

State regulations

State RTK	CAS Number	Chemical name
NJ	107-98-2	1-methoxypropan-2-ol
	108-94-1	cyclohexanone
	64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics,
	64742-54-7	< 2% aromatics
	64742-82-1	Distillates (petroleum), hydrotreated heavy paraffinic
	115-10-6	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics,

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	64742-94-5	aromat
	64742-47-8	dimethyl ether
		Hydrocarbons, C10, aromatics, < 1% naphthalene
		Distillates (petroleum), hydro- treated light; Kerosine
PA	107-98-2	1-methoxypropan-2-ol
	108-94-1	cyclohexanone
	8006-54-0	lanolin
	64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics,
	64742-54-7	< 2% aromatics
	64742-82-1	Distillates (petroleum), hydrotreated heavy paraffinic
	115-10-6	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics,
	64742-94-5	aromat
	64742-47-8	dimethyl ether
		Hydrocarbons, C10, aromatics, < 1% naphthalene
		Distillates (petroleum), hydro-treated light; Kerosine

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including NAPHTHALENE, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 2 Fire: 4 Reactivity: 1 Special:

HMIS III rating

Health: 2^m Flammability: 4 Physical hazard: 1

16. Other Information

SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2023/01/06

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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