

Safety data sheet

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Chemetall (now part of BASF Group) Safety data sheet

Date / Revised: 16.12.2021

Product: **Ardrox AV30**

Version: 2.0

(30690983/SDS_GEN_NZ/EN)

Date of print 19.12.2021

1. Substance/preparation and manufacturer/supplier identification

Ardrox AV30

Recommended use: corrosion inhibitor

Not recommended use: Uses other than recommended

Manufacturer/supplier:

Chemetall (New Zealand) Ltd
664 Rosebank Road Avondale,
Auckland 1026
NEW ZEALAND
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency information:

National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazard identification

Classification of the substance and mixture:

Skin corrosion/irritation: Cat. 2

Serious eye damage/eye irritation: Cat. 2A

Specific target organ toxicity — repeated exposure: Cat. 2

Hazardous to the aquatic environment - acute: Cat. 2

Hazardous to the aquatic environment - chronic: Cat. 3

Flammable liquids: Cat. 3

Specific target organ toxicity — single exposure: Cat. 3 (Vapours may cause drowsiness and dizziness.)

Label elements and precautionary statement:

Pictogram:



Signal Word:

Warning

Hazard Statement:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause 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):

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 dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P260	Do not breathe dust or mist.
P240	Ground and bond container and receiving equipment.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P243	Take action to prevent static discharges.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use only non-sparking tools.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P332 + P313	If skin irritation occurs: Get medical attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use water spray for extinction.

Precautionary Statements (Storage):

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

Precautionary Statements (Disposal):

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

Other hazards which do not result in classification:

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

Chemical nature

organic compounds, organic solvent

Hazardous ingredients

1-butoxypropan-2-ol

Content (W/W): $\geq 1\%$ - $< 2\%$
 CAS Number: 5131-66-8

Flam. Liq.: Cat. 4
 Acute Tox.: Cat. 5 (oral)
 Skin Corr./Irrit.: Cat. 3
 Eye Dam./Irrit.: Cat. 2B

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

Content (W/W): $\geq 0.5\%$ - $< 1\%$
 CAS Number: 25307-17-9

Acute Tox.: Cat. 4 (oral)
 Skin Corr./Irrit.: Cat. 1B
 Eye Dam./Irrit.: Cat. 1
 Aquatic Acute: Cat. 1
 Aquatic Chronic: Cat. 1
 M-factor acute: 10
 M-factor chronic: 1

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

Content (W/W): $\geq 12.5\%$ - $< 15\%$
 CAS Number: 64742-48-9

Asp. Tox.: Cat. 1
 Flam. Liq.: Cat. 3
 STOT SE (Central nervous system): Cat. 3
 (drowsiness and dizziness)

Hydrocarbons, C10 - C13, n-alkanes, isoalkanes, cyclics, $< 2\%$

Content (W/W): $\geq 12.5\%$ - $< 15\%$
 CAS Number: 64742-48-9

Asp. Tox.: Cat. 1
 Flam. Liq.: Cat. 4
 Skin Corr./Irrit.: Cat. 3

| Distillates (petroleum), hydrotreated heavy paraffinic

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Content (W/W): $\geq 3\%$ - $< 5\%$ Asp. Tox.: Cat. 1
 CAS Number: 64742-54-7

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

Content (W/W): $\geq 3\%$ - $< 5\%$ Asp. Tox.: Cat. 1
 CAS Number: 64742-82-1 Flam. Liq.: Cat. 3
 STOT SE: Cat. 3 (drowsiness and dizziness)
 STOT RE: Cat. 1
 Aquatic Chronic: Cat. 2
 Aquatic Acute: Cat. 2

Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, $< 2\%$ aromatics

Content (W/W): $\geq 3\%$ - $< 5\%$ Asp. Tox.: Cat. 1

Calcium bis(dinonylnaphthalenesulphonate)

Content (W/W): $\geq 10\%$ - $< 12.5\%$ Skin Corr./Irrit.: Cat. 2
 % Eye Dam./Irrit.: Cat. 2A
 CAS Number: 57855-77-3

| Distillates (petroleum), hydro- treated light; Kerosine

Content (W/W): $\geq 7\%$ - $< 10\%$ Asp. Tox.: Cat. 1
 CAS Number: 64742-47-8 Flam. Liq.: Cat. 3
 Skin Corr./Irrit.: Cat. 2
 STOT SE: Cat. 3 (drowsiness and dizziness)
 Aquatic Chronic: Cat. 2

4. 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.

On skin contact:

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

On contact with 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.

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On ingestion:

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

Note to physician:

Symptoms: Eye irritation, allergic symptoms, dazed state, skin irritation, dizziness, 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.

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

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

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon oxides

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

Special protective equipment:

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. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental Release Measures

Personal precautions:

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 for cleaning up or taking 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.

7. Handling and Storage

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.

Storage

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

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephthalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate)

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. Protect from frost. Protect against heat.

Storage stability:

Storage temperature: 4 - 38 °C

8. Exposure controls and personal protection

Components with occupational exposure limits

| Distillates (petroleum), hydrotreated heavy paraffinic, 64742-54-7;

TWA value 5 mg/m³ (ACGIHTLV), Inhalable fraction
TWA value 5 mg/m³ (OEL (NZ)), Mist
Sampled by a method that does not collect vapour.
STEL value 10 mg/m³ (OEL (NZ)), Mist
Sampled by a method that does not collect vapour.
(ACGIHTLV)
Included in the regulation, but with no data values - See the regulation for further details
(ACGIHTLV)
Exposure by all routes should be carefully controlled to levels as low as possible.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromat, 64742-82-1;
TWA value 100 ppm (ACGIHTLV)
TWA value 525 mg/m³ ; 100 ppm (OEL (NZ))

Personal protective equipment

Respiratory protection:

Respiratory protection required if exposure limit (if available) may be exceeded (Gas filter EN 14387 A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

nitrile rubber (NBR) - 0.4 mm coating thickness

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.

9. Physical and Chemical Properties

Form: liquid
Colour: light brown
Odour: solvent-like

pH value:	substance/mixture is non-soluble (in water)
Melting point:	not determined
onset of boiling:	155 °C
Flash point:	> 46 °C
Flammability (solid/gas):	Flammable liquid and vapour.
Lower explosion limit:	not determined
Ignition temperature:	not determined
Self heating ability:	It is not a substance capable of spontaneous heating.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	(20 °C) not determined
	(50 °C) not determined
Density:	0.900 g/cm ³ (DIN 51757) (20 °C)
Solubility in water:	practically insoluble
Miscibility with water:	immiscible
Viscosity, kinematic:	98.000 mm ² /s (40 °C)

10. Stability and Reactivity

Conditions to avoid:

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

Substances to avoid:

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

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

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

Acute toxicity

Assessment of acute toxicity:

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

Information on: 1-butoxypropan-2-ol

Experimental/calculated data:

LD50 rat (oral): approx. 3,300 mg/kg (OECD Guideline 401)

Irritation

Assessment of irritating effects:

Eye contact causes irritation. Skin contact causes irritation.

Respiratory/Skin sensitization

Assessment of sensitization:

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

Germ cell mutagenicity

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.

Developmental toxicity

Assessment of teratogenicity:

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

Specific target organ toxicity (single exposure):

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Ecotoxicity

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.

Mobility

Assessment transport between environmental compartments:
No data available.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):
No data available concerning biodegradation and elimination.

Bioaccumulation potential

Bioaccumulation potential:
No data available.

13. Disposal Considerations

Observe national and local legal requirements.
No disposal via sewage or waste water systems.

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

14. Transport Information

Domestic transport:

Packing group:	III
ID number:	UN 1139
Transport hazard class(es):	3
Proper shipping name:	COATING SOLUTION

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Further information

Hazchem Code:3Y
IERG Number:14

Sea transport

IMDG

Packing group: III
ID number: UN 1139
Transport hazard class(es): 3
Marine pollutant: NO
Proper shipping name: COATING SOLUTION

Air transport

IATA/ICAO

Packing group: III
ID number: UN 1139
Transport hazard class(es): 3
Proper shipping name: COATING SOLUTION

Further information

Not dangerous goods of class 3 because the product has flash point > 35°C and does not sustain combustion.

15. Regulatory Information**Other regulations**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Tracking requirements do not apply to this substance.

A certified handler is not required for the handling of this substance.

HSNO Approval Number HSR002548
Corrosion Inhibitors (Flammable) Group Standard 2017

16. Other Information

Vertical lines in the left hand margin indicate an amendment from the previous version.

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