

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



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Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	000000000050557099	02.03.2025
			Date of first issue: 16.05.2023

SECTION 1. IDENTIFICATION

Product name : Ardrox 1900B (5 Gal)
Product code : 000000000050557099

Manufacturer or supplier's details

Company:

Chemetall U.S., Inc.
675 Central Avenue
New Providence, NJ 07974 – USA
+1 800 526-4473
sds.na-chemetall@basf.com

Emergency telephone : CHEMTREC: 800-424-9300, +1-703-527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Detergent
Restrictions on use : Uses other than recommended

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion : Category 1

Serious eye damage : Category 1

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Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025
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Skin sensitization : Category 1

Reproductive toxicity : Category 1B

Short-term (acute)
aquatic hazard : Category 3

Long-term (chronic)
aquatic hazard : Category 3

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H360FD May damage fertility. May damage the unborn child.

SAFETY DATA SHEET

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Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025 Date of first issue: 16.05.2023

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

: Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing mist or vapors.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025
			Date of first issue: 16.05.2023

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.

P308 + P313 IF exposed or concerned: Get medical attention.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

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

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

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

Substance / Mixture : Reaction Product

Chemical nature : organic compounds

Water

organic solvent

Components

Chemical name	CAS-No.	Concentration (% w/w)	Synonyms
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SAFETY DATA SHEET

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Ardrox 1900B (5 Gal)

Version 2.0 Revision Date: 07.04.2025 SDS Number: 000000000050557099 Date of last issue: 02.03.2025
Date of first issue: 16.05.2023

4-Nonylphenol, branched, ethoxylated	127087-87-0	$\geq 2.5 - < 3$	4-Nonylphenol branched, ethoxylated
dipropylene glycol monomethylether	34590-94-8	$\geq 2.5 - < 3$	(2-methoxymethylethoxy)propanol
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides	61791-10-4	$\geq 1 - < 2$	Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides
Nonylphenol, branched, ethoxylated	68412-54-4	$\geq 1 - < 2$	Nonylphenol, branched, ethoxylated
Disodium tetraborate	1330-43-4	$\geq 0.5 - < 1$	disodium tetraborate, anhydrous
d-Limonene	5989-27-5	$\geq 0.5 - < 1$	(R)-p-mentha-1,8-diene

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : First aid personnel should pay attention to their own safety.
Immediately remove contaminated clothing.
In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.
Symptoms of poisoning may occur even after

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025 Date of first issue: 16.05.2023

	several hours, continue medical observation for at least 48 hours after the accident. Never give anything by mouth to an unconscious person. Keep patient warm and at rest.
If inhaled	: If breathed in, move person into fresh air. Call a physician or poison control center immediately. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	: Call a physician immediately. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
In case of eye contact	: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Call a physician immediately. If easy to do, remove contact lens, if worn.
If swallowed	: Do not induce vomiting due to aspiration hazard. Keep at rest. If symptoms persist, call a physician or Poison Control Center immediately.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025 Date of first issue: 16.05.2023

Most important symptoms and effects, both acute and delayed	: Rinse mouth with water. May cause an allergic skin reaction. Causes serious eye damage. May damage fertility. May damage the unborn child. Causes severe burns. 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. May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.
Notes to physician	: No known specific antidote. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Water spray jet Dry powder Alcohol-resistant foam Carbon dioxide (CO ₂)
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Unsuitable extinguishing	: High volume water jet
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SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025
			Date of first issue: 16.05.2023

media

Specific hazards during fire fighting : Hazardous decomposition products formed under fire conditions.

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.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : 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.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025
			Date of first issue: 16.05.2023

For non-emergency personnel:

For emergency responders:

Use personal protective equipment.

Ensure adequate ventilation, especially in confined areas.

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.

Methods and materials for : Ensure adequate ventilation.
containment and cleaning
up

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).

SECTION 7. HANDLING AND STORAGE

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025
			Date of first issue: 16.05.2023

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.
The relevant fire protection measures should be noted.

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.

Further information on storage conditions : 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.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version 2.0 Revision Date: 07.04.2025 SDS Number: 000000000050557099 Date of last issue: 02.03.2025
Date of first issue: 16.05.2023

Keep in a dry, cool and well-ventilated place.

Materials to avoid : Acids

Segregate from acids and acid forming substances.

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

Storage period : 24 Months

Packaging material : Suitable material: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene, Carbon steel (Iron), tinned carbon steel (Tinplate)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dipropylene glycol monomethylether	34590-94-8	TWA	100 ppm 600 mg/m3	NIOSH REL
		ST	150 ppm	NIOSH REL

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version 2.0 Revision Date: 07.04.2025 SDS Number: 000000000050557099 Date of last issue: 02.03.2025
Date of first issue: 16.05.2023

			900 mg/m ³	
		TWA	100 ppm 600 mg/m ³	OSHA Z-1
		TWA	100 ppm 600 mg/m ³	OSHA P0
		STEL	150 ppm 900 mg/m ³	OSHA P0
		TWA	50 ppm	ACGIH
Disodium tetraborate	1330-43-4	TWA	1 mg/m ³	NIOSH REL
		TWA	10 mg/m ³	OSHA P0
		TWA (Inhalable particulate matter)	2 mg/m ³ (Borate)	ACGIH
		STEL (Inhalable particulate matter)	6 mg/m ³ (Borate)	ACGIH
d-Limonene	5989-27-5	TWA	30 ppm	US WEEL

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Organic vapor Type

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025
			Date of first issue: 16.05.2023

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. chloroprene rubber (CR) - 0.5 mm coating thickness 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 indication of degradation or chemical breakthrough. Preventive skin protection

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

Skin and body protection : Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

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.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.

Wash hands before breaks and at the end of workday.

SAFETY DATA SHEET

according to the OSHA Hazard Communication
Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue: 02.03.2025
2.0	07.04.2025	0000000000505 57099	Date of first issue: 16.05.2023

Keep away from food, drink and animal feedingstuffs.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	yellow
Odor	:	citrus
Odor Threshold	:	No data available
pH	:	12.1 - 12.58 (68 °F / 20 °C)
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Flammability	:	Does not sustain combustion.
Upper explosion limit / Upper	:	not determined

SAFETY DATA SHEET

according to the OSHA Hazard Communication
Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue: 02.03.2025
2.0	07.04.2025	0000000000505 57099	Date of first issue: 16.05.2023

flammability limit

Lower explosion limit / Lower
flammability limit : > 35 g/m3

Vapor pressure : not determined (68 °F / 20 °C)
not determined (122 °F / 50 °C)

Relative vapor density : Lighter than air.

Relative density : No data available

Density : 1.019 g/cm3 (68 °F / 20 °C)

Solubility(ies)
Water solubility : not determined

Solubility in other solvents : No data available

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

Autoignition temperature : > 392 °F / > 200 °C

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

Viscosity
Viscosity, dynamic :

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025
			Date of first issue: 16.05.2023

	No data available
Viscosity, kinematic	: 6 mm ² /s (73 °F / 23 °C) not determined (104 °F / 40 °C)
Flow time	: < 30 s (73 °F / 23 °C) Cross section: 3 mm Method: ISO 2431
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Self-heating substances	: The substance or mixture is not classified as self heating.
Metal corrosion rate	: Not corrosive to metals.
Particle size	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No hazardous reactions when stored and handled according to instructions.
Conditions to avoid	: Avoid direct sunlight.
Incompatible materials	: Acids
Hazardous decomposition	: No decomposition if stored and applied as directed.

SAFETY DATA SHEET

according to the OSHA Hazard Communication
Standard



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Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025
			Date of first issue: 16.05.2023

products

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h

Test atmosphere: vapor

Method: Calculation method

Skin corrosion/irritation

Causes severe burns.

Product:

Result : Corrosive after 4 hours or less of exposure

Remarks : The value is calculated

Serious eye damage/eye irritation

Causes serious eye damage.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue: 02.03.2025
2.0	07.04.2025	0000000000505 57099	Date of first issue: 16.05.2023

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

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

Germ cell mutagenicity

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

Carcinogenicity

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

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

May damage fertility. May damage the unborn child.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration toxicity

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

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue: 02.03.2025
2.0	07.04.2025	0000000000505 57099	Date of first issue: 16.05.2023

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

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

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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

International Regulations

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue: 02.03.2025
2.0	07.04.2025	0000000000505 57099	Date of first issue: 16.05.2023

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Respiratory or skin sensitization
Reproductive toxicity
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	07.04.2025	0000000000505 57099	02.03.2025 Date of first issue: 16.05.2023

4-Nonylphenol, branched, ethoxylated	127087-87-0
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Nonylphenol, branched, ethoxylated	68412-54-4
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US State Regulations

Pennsylvania Right To Know

dipropylene glycol monomethylether	34590-94-8
sodium hydroxide	1310-73-2

New Jersey Right To Know

dipropylene glycol monomethylether	34590-94-8
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The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



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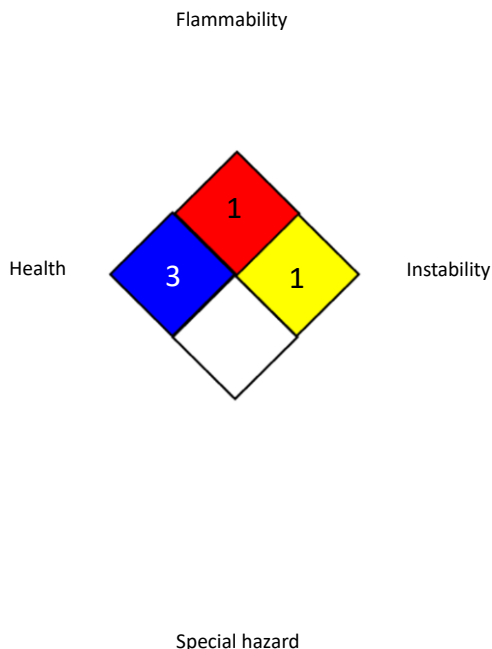
Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue: 02.03.2025
2.0	07.04.2025	0000000000505 57099	Date of first issue: 16.05.2023

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		1

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency

SAFETY DATA SHEET

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Standard



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Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue: 02.03.2025
2.0	07.04.2025	0000000000505 57099	Date of first issue: 16.05.2023

Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

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

Revision Date : 07.04.2025

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

SAFETY DATA SHEET

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Ardrox 1900B (5 Gal)

Version	Revision Date:	SDS Number:	Date of last issue: 02.03.2025
2.0	07.04.2025	0000000000505 57099	Date of first issue: 16.05.2023

material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN