

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 9D1B Aerosol NA (12x16 Oz)

Version 3.1 Revision Date: 12/18/2025 SDS Number: 000000000050559101 Date of last issue: 11/15/2025
Date of first issue: 03/02/2025

SECTION 1. IDENTIFICATION

Product name : Ardrox 9D1B Aerosol NA (12x16 Oz)
Product code : 000000000050559101

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 : Nondestructive Testing
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)

Aerosols : Category 1

Eye irritation : Category 2A

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Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
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.
P211 Do not spray on an open flame or other ignition

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source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing mist.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection and face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor 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.

P337 + P313 If eye irritation persists: Get medical attention.

Storage:

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

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F).

Disposal:

P501 Dispose of contents and container to an

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approved waste disposal plant.

Other hazards

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : inorganic compounds
organic solvent
fillers

Components

Chemical name	CAS-No.	Concentration (% w/w)	Synonyms
acetone	67-64-1	>= 30 - < 60	acetone
propan-2-ol	67-63-0	>= 10 - < 30	propan-2-ol
propane	74-98-6	>= 10 - < 30	propane
talc	14807-96-6	>= 5 - < 10	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
isobutane	75-28-5	>= 5 - < 10	isobutane
Chlorite-group minerals	1318-59-8	>= 1 - < 5	Chlorite-group minerals

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
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

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position).
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 : If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial respiration.

If symptoms persist, call a physician.

In case of skin contact : If symptoms persist, call a physician.

Do NOT use solvents or thinners.

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

In case of eye contact : If easy to do, remove contact lens, if worn.

Call a physician immediately.

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed : Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Rinse mouth.

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	Do NOT induce vomiting.
	If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: Causes serious eye irritation. May cause drowsiness or 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.
Notes to physician	: Treat symptomatically. No known specific antidote.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry powder

Carbon dioxide (CO₂)

Water spray

Foam

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Unsuitable extinguishing : High volume water jet media

Specific hazards during fire fighting : Cool containers exposed to fire with water. Decomposition, pressure build-up and bursting of containers may occur.

Hazardous combustion products : Vapors and/or decomposition products are irritant and/or toxic.

Carbon oxides

Further information : Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

Notify proper authorities.

Remove product from areas of fire, or otherwise cool sealed containers with water in order to avoid pressure build up due to heat.

Cool containers/tanks with water spray.

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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.

For non-emergency personnel:

Use personal protective equipment.

Ensure adequate ventilation, especially in confined areas.

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.

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Avoid contact with skin and eyes.

Use antistatic tools.

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.

A spill of or in excess of the reportable quantity requires notification to state, local and national emergency 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).

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SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Risk of explosion if heated under confinement.

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 vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on 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.

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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.

Proper ventilation and respiratory protection is required when sanding, flame cutting, welding or brazing coated surfaces.

Do not puncture, drop, or slide containers.

WARNING: Empty containers may still contain hazardous residue.

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.

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

Materials to avoid

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

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reactions.

Do not expose to temperatures exceeding 50°C/ 122°F.

Storage period : 60 Months

Further information on storage stability : Consult local fire marshal for storage requirements.

Packaging material : Suitable material: Paper/Fibreboard, Aluminum, 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
acetone	67-64-1	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm 590 mg/m ³	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m ³	OSHA Z-1

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		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
		TWA	750 ppm 1,800 mg/m3	OSHA P0
propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1
		TWA	400 ppm 980 mg/m3	OSHA P0
		STEL	500 ppm 1,225 mg/m3	OSHA P0
propane	74-98-6	TWA	1,000 ppm 1,800 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m3	OSHA Z-1
		TWA	1,000 ppm	OSHA P0

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			1,800 mg/m3	
talc	14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (respirable dust fraction)	2 mg/m3	OSHA P0
		TWA (Respirable)	2 mg/m3	NIOSH REL
		TWA (Respirable particulate matter)	2 mg/m3	ACGIH
isobutane	75-28-5	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		STEL	1,000 ppm	ACGIH

Engineering measures : Ensure adequate ventilation.

General mechanical ventilation should comply with OSHA 1910.94.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Filter type : Combined particulates, organic gas and low boiling vapor type

Hand protection

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-
- 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 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). 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 : 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.
- 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.
- Contact lenses should not be worn.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : aerosol

Color : white

Odor : sweet

Odor Threshold : No data available

pH : substance/mixture is a gas

Melting point/freezing point : Study technically not feasible.

Boiling point/boiling range : Study technically not feasible.

Flash point : -0.40 °F / -18 °C

Evaporation rate : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit / Upper : No data available

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flammability limit

Lower explosion limit / Lower flammability limit : not determined

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

Relative vapor density : No data available

Relative density : No data available

Density : 0.876 g/cm³ (68 °F / 20 °C)

Solubility(ies)
Water solubility : not determined

Solubility in other solvents : No data available

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

Autoignition temperature : not determined

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

Viscosity
Viscosity, dynamic :

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	No data available
Viscosity, kinematic	: 6.0 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.
Heat of combustion	: No data available
Metal corrosion rate	: Not corrosive to metals.
Particle characteristics	
Particle size	: No data available
Particle Size Distribution	: 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	: Risk of bursting. Vapors may form explosive mixture with air.

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Conditions to avoid	:	Do not expose to temperatures exceeding 50°C/ 122°F. Avoid direct sunlight. Heat, flames and sparks.
Incompatible materials	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Skin corrosion/irritation

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

Components:

acetone:

Assessment : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

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

Respiratory sensitization

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

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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

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

STOT-single exposure

May cause drowsiness or dizziness.

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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

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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.

Incinerate or dispose of in a RCRA-licensed facility.

It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Contaminated packaging : **WARNING:** Empty containers may still contain hazardous residue.

Dispose of in accordance with national, state and local regulations.

Packaging that is not properly emptied must be disposed of as the unused product.

Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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UNRTDG

UN number : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Packing group : Not assigned by regulation
Labels : Flammable Gas
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203

IMDG-Code

UN number : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Packing group : Not assigned by regulation

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Labels	:	2.1
EmS Code	:	F-D, S-U
Marine pollutant	:	no

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

UN/ID/NA number	:	UN 1950
Proper shipping name	:	AEROSOLS
Class	:	2.1
Packing group	:	Not assigned by regulation
Labels	:	FLAMMABLE GAS
ERG Code	:	126
Marine pollutant	:	no

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.

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards	:	Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)
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SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

propan-2-ol 67-63-0

US State Regulations

Pennsylvania Right To Know

acetone	67-64-1
propan-2-ol	67-63-0
propane	74-98-6
talc	14807-96-6
isobutane	75-28-5

New Jersey Right To Know

acetone	67-64-1
propan-2-ol	67-63-0
propane	74-98-6
talc	14807-96-6
isobutane	75-28-5

California Prop. 65

WARNING: This product can expose you to chemicals including Quartz (SiO₂), which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : On or in compliance with the active portion of the TSCA

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inventory

TSCA list

No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

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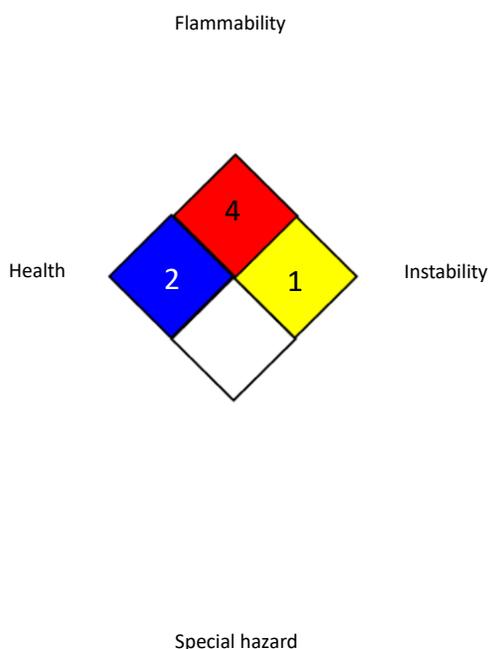
Chemetall

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NFPA 704:



HMIS® IV:

HEALTH	/	2
FLAMMABILITY		4
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.

AICC - 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 Standardization; 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 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

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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 Organization 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, Authorization 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.

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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 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.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Ardrox 9D1B Aerosol NA (12x16 Oz)

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