



We create chemistry

Safety Data Sheet

Ardrox 9D4A

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Version: 2.0

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1. Identification

Product identifier used on the label

Ardrox 9D4A

Recommended use of the chemical and restriction on use

Recommended use*: Developer

Unsuitable for use: Uses other than recommended

* 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.

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

Substance number: 864886

Chemical family: organic, inorganic

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2. Hazards Identification

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

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified

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

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

1,3-Propanediol, 2,2-bis(hydroxymethyl)-
CAS Number: 115-77-5
Content (W/W): ≥ 25.0 - $< 50.0\%$
Synonym: Pentaerythritol

Magnesium oxide
CAS Number: 1309-48-4
Content (W/W): ≥ 15.0 - $< 20.0\%$
Synonym: No data available.

Silicon dioxide
CAS Number: 7631-86-9
Content (W/W): ≥ 10.0 - $< 15.0\%$

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Synonym: Silicon dioxide

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. Remove affected person from danger area.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice.

If on skin:

Wash affected areas thoroughly with soap and water. If symptoms persist, seek medical advice.

If in eyes:

Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution. Seek medical attention.

If swallowed:

Rinse mouth thoroughly with water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Information on: Magnesium oxide

Symptoms: Overexposure may cause: leukocytosis, metal fume fever, tightness in the chest, fever, coughing, headache

Hazards: No applicable information available.

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Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
carbon dioxide, dry powder, alcohol-resistant foam, water spray

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
carbon oxides

Advice for fire-fighters

Protective equipment for fire-fighting:
Appropriate breathing apparatus may be required.

Further information:

Cool endangered containers with water-spray. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Methods and material for containment and cleaning up

Ensure adequate ventilation. Avoid dust formation. Take up mechanically and collect in suitable container (adequately labelled) for disposal.

7. Handling and Storage

Precautions for safe handling

Do not return residues to the storage containers. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid dust formation. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Keep away from food, drink and animal feeding stuffs. Warn users about safety measures and precautions to prevent accidents.

Protection against fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Avoid the formation and build-up of dust - danger of dust explosion. The relevant fire protection measures should be noted.

Conditions for safe storage, including any incompatibilities

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

Further information on storage conditions: The entrance to storage rooms is to be granted only to appropriately trained personnel. Keep only in the original container. Keep container tightly closed in a cool, well-ventilated place. Avoid direct sunlight. Protect against moisture.

Storage stability:

Storage temperature: 5 - 40 °C

Storage duration: 36 Months

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8. Exposure Controls/Personal Protection

Components with occupational exposure limits

1,3-Propanediol, 2,2-bis(hydroxymethyl)-	OSHA PEL	PEL 5 mg/m ³ Respirable fraction ; PEL 15 mg/m ³ Total dust ; TWA value 5 mg/m ³ Respirable fraction ; TWA value 10 mg/m ³ Total dust ;
	ACGIH TLV	TWA value 10 mg/m ³ ;
Magnesium oxide	OSHA PEL	PEL 15 mg/m ³ Total particulate ; TWA value 10 mg/m ³ Total particulate ;
	ACGIH TLV	TWA value 10 mg/m ³ Inhalable fraction ;

Advice on system design:

Use only in well-ventilated areas. Avoid the formation and deposition of dust.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

Hand protection:

chloroprene rubber (Neoprene), Use suitable protective gloves made of nitrile rubber or butyl rubber. Please observe the glove manufacturer's instructions on permeability and rupture times as well as the specific workplace conditions., Chemical resistant protective gloves (EN 374), Further information on penetration time is available from the manufacturer of the glove., The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

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General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Eye wash fountains and safety showers must be easily accessible. Do not breathe dust. Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. Keep away from food, drink and animal feeding stuffs. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Form:	powder
Odour:	odourless
Odour threshold:	No applicable information available.
Colour:	white
pH value:	not applicable
Melting point:	not determined
Freezing point:	not determined
Boiling point:	not determined
Boiling range:	not determined
Sublimation point:	No applicable information available.
Flash point:	not applicable
Flammability:	not flammable
Lower explosion limit:	not applicable
Upper explosion limit:	No applicable information available.
Autoignition:	not applicable
Vapour pressure:	(20 °C) not determined
Relative density:	No applicable information available.
Bulk density:	110 kg/m ³ (< 20 °C)
Vapour density:	No applicable information available.
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.
Thermal decomposition:	No applicable information available.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	(20 °C) not applicable
Solubility in water:	insoluble
Miscibility with water:	immiscible
Solubility (quantitative):	No applicable information available.

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

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

Dust explosivity characteristics:
Kst: 49 m.bar/s (DIN EN 14034-2)

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Dust explosion hazard. Dust can form an explosive mixture with air.

Conditions to avoid

Avoid humidity. Avoid dust formation.

Incompatible materials

strong acids, oxidizing agents

Hazardous decomposition products

Decomposition products:
Possible decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No applicable information available.

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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.

Irritation / corrosion

Assessment of irritating effects: Based on available Data, the classification criteria are not met.

Sensitization

Assessment of sensitization: Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available Data, the classification criteria are not met.

Genetic toxicity

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.

Teratogenicity

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

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12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Do not allow to enter drains or waterways. There are no test results available for this product.
Based on available Data, the classification criteria are not met.

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:

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

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

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.

State regulations

State RTK

NJ

PA

CAS Number

7631-86-9

1309-48-4

115-77-5

7631-86-9

Chemical name

Silicon dioxide

Magnesium oxide

1,3-Propanediol, 2,2-bis(hydroxymethyl)-

Silicon dioxide



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1309-48-4 Magnesium oxide

NFPA Hazard codes:

Health: 1 Fire: 2 Reactivity: 1 Special:

HMIS III rating

Health: 1 Flammability: 2 Physical hazard: 1

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2020/09/25

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