

Safety Data Sheet ARDROX 321-N

Revision date : 2018/01/04

Version: 1.1

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(30663764/SDU_GEN_US/EN)

1. Identification

Product Identifier used on the label

ARDROX 321-N

Recommended use of the chemical and restriction on use

Recommended use*: coating agent

* 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:
Chemetall U.S., Inc.
675 Central Avenue
New Providence, NJ 07974 – USA

Telephone: +1 800 526-4473
E-mail address: michael.lchang@basf.com

Emergency telephone number

Telephone: 800-424-9300, 1-703-527-3887

Other means of identification

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Colour	blue green
Odour	mild
Hazard Summary	Repeated or prolonged exposure may cause irritation of eyes and skin. Also harmful by inhalation.

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GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Potential Health Effects

Inhalation : yes

Skin : yes

Ingestion : yes

Aggravated Medical Condition : None known.

Carcinogenicity:

IARC

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

ACGIH

Confirmed animal carcinogen with unknown relevance to humans

2-Butoxy ethanol

111-76-2

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :

Hazardous components

Component	CAS-No.	Weight percent
2-Butoxy ethanol	111-76-2	5 - 10
Silica Amorphous	112945-52-5	1 - 5

Unidentified ingredients are considered not hazardous, or not required to be listed under Federal Hazard Communication Standard (29CFR 1910.1200).

Specific chemical identity of composition has been withheld as a trade secret.

Exact percentage of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.

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- In case of skin contact : Flush skin with large amounts of water. If irritation develops and persists, get medical attention.
- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth. Drink plenty of water. Obtain medical attention.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting : Do not allow runoff from fire fighting to enter drains or water courses.
- Further information : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
- Methods and materials for containment and cleaning up : Ventilate area. Clean up with inert absorbent material. Keep in suitable, closed containers for disposal. Flush with plenty of water.
- Additional advice : Never return spills in original containers for re-use.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Use only with adequate ventilation.
- Conditions for safe storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store indoors in a cool, well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters /	Basis
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		exposure)	Permissible concentration	
2-Butoxy ethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24.000000 mg/m3	NIOSH REL
		TWA	50 ppm 240.000000 mg/m3	OSHA Z-1
		TWA	25 ppm 120.000000 mg/m3	OSHA P0
		PEL	20 ppm 97.000000 mg/m3	CAL PEL
Silica Amorphous	112945-52-5	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2	OSHA Z-3
		TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA	6.000000 mg/m3 (Silica)	NIOSH REL
		PEL	6.000000 mg/m3	CAL PEL

Biological occupational exposure limits

Components	CAS No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-Butoxy ethanol	111-76-2, 111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g Creatinine	ACGIH BEI

Personal protective equipment

- Respiratory protection : If the occupational exposure limits cannot be met, suitable respirator equipment shall be worn.
- Hand protection : Impervious gloves
- Eye protection : Safety glasses with side-shields
- Skin and body protection : Rubber or plastic apron
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Wear suitable gloves and eye/face protection.
Wear suitable protective clothing.
Wash hands before breaks and immediately after handling the product.
Provide adequate ventilation.
Do not inhale fumes.
Keep away from food and drink.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: blue green
Odour	: mild
pH	: 6.5 - 7.5
Freezing point	: 0 °C
Boiling point/boiling range	: No data available
Flash point	: > 93,4 °C
Evaporation rate	: (Water =1) Less than 1
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative density	: 1.041
Bulk density	: 0.69 t/m ³
Solubility(lies)	
Water solubility	: Appreciable
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks. freezing
Incompatible materials	: Strong acids and strong bases Oxidizing agents
Hazardous decomposition products	: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000.000000 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 3,417.000000 mg/kg
Method: Calculation method

Components:

2-Butoxy ethanol:

Acute oral toxicity : LD50 Guinea pig: 1,400.000000 mg/kg
LD50 Rat: 1,300.000000 mg/kg

Acute inhalation toxicity : LC50 Rat: > 4.900000 mg/l
Exposure time: 3 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 Guinea pig: > 2,000.000000 mg/kg
LD50 Rabbit: > 2,000.000000 mg/kg

Silica Amorphous:

Acute oral toxicity : LD50 Rat: > 5,000.000000 mg/kg

Acute inhalation toxicity : LC50 :

Acute dermal toxicity : LD50 Rabbit: > 2,000.000000 mg/kg

Skin corrosion/irritation

Components:

2-Butoxy ethanol:

Result: Skin irritation

Serious eye damage/eye irritation

Components:

2-Butoxy ethanol:

Result: Moderate eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

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No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

2-Butoxy ethanol:

Rat:

LOAEL: 69.000000 mg/kg

Application Route: Oral

Target Organs: Liver

Rat:

NOAEL: 150.000000 mg/kg

Application Route: Dermal

Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Bioaccumulative potential

Product:

Partition coefficient:
n-octanol/water

: Remarks: No data available

Other adverse effects

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse, recycle or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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

Not applicable for product as supplied.

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National Regulations

SECTION 15. REGULATORY INFORMATION

TSCA Status : All components of this material comply with US TSCA requirements.

OSHA Hazards : Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption
WHMIS Classification : D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

Ammonium hydroxide	1336-21-6	11000
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SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:
2-Butoxy ethanol 111-76-2

US State Regulations

Massachusetts Right To Know

2-Butoxy ethanol	111-76-2
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Pennsylvania Right To Know

water	7732-18-5
2-Butoxy ethanol	111-76-2
2-Propanol	67-63-0
Ammonium hydroxide	1336-21-6

New Jersey Right To Know

water	7732-18-5
2-Butoxy ethanol	111-76-2
Silica Amorphous	112945-52-5

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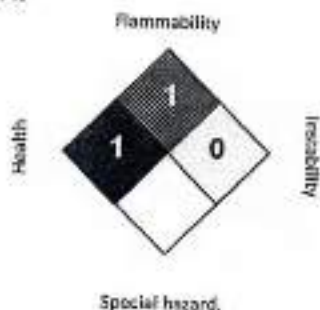
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NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Safety Glasses, Gloves, Vapour
Respirator

SECTION 16. OTHER INFORMATION

Further information

Version: 1.1

Revision Date 12/19/2017

SDS Prepared by:

Chemtall (now part of BASF Group) NA Product Regulations

SDS Prepared on: 2018/01/04

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The content of this Safety Data Sheet (SDS) is based on an existing document from an acquired company with adaptations to Section I. The data is currently under validation.

END OF DATA SHEET