

ARDROX[®] 9D4A

Version 0.1

Revision Date 06/05/2015

Print Date 06/05/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ARDROX[®] 9D4A

Substance number : REL_200514

Chemical usage : Nondestructive Testing

Manufacturer or supplier's details

Company : Chemetall US, Inc.

Address : 675 Central Avenue
New Providence NJ 07974

Telephone : (800) 526-4473

Telefax : (908) 464-4658

Emergency telephone no : CHEMTREC - 800-424-9300, 1-703-527-3887 (International)

SECTION 2. HAZARDS IDENTIFICATION
Emergency Overview

Appearance	powder
Colour	white
Odour	none
Hazard Summary	Repeated or prolonged exposure may cause irritation of eyes and skin. Also harmful by inhalation and if swallowed. WARNING! MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR.

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Potential Health Effects

Inhalation : yes

Skin : no

Ingestion : yes

Aggravated Medical Condition : None known.

Carcinogenicity:

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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	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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
Pentaerythritol	115-77-5	30 - 50
Magnesium oxide	1309-48-4	10 - 20
Silica Amorphous	112945-52-5	10 - 20

Unidentified ingredients are considered not hazardous 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.
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. Seek medical advice.
If swallowed	: Rinse mouth. Drink plenty of water. Obtain medical attention.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

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Dry powder
Foam
Carbon dioxide (CO₂)

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Avoid breathing dust.

Methods and materials for containment and cleaning up : Avoid dust generation
Ventilate area.
Sweep up and remove immediately.
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 : Avoid breathing dust.
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
Protect from direct contact with water or excessive moisture.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Pentaerythritol	115-77-5	TWA	10.000000 mg/m ³	ACGIH
		TWA (Respirable)	5.000000 mg/m ³	NIOSH REL
		TWA (total)	10.000000 mg/m ³	NIOSH REL
		TWA (total dust)	15.000000 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5.000000 mg/m ³	OSHA Z-1
		TWA (Total dust)	10.000000 mg/m ³	OSHA P0
		TWA (respirable)	5.000000 mg/m ³	OSHA P0

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		dust fraction)		
Magnesium oxide	1309-48-4	TWA (Inhalable fraction)	10.000000 mg/m3	ACGIH
		TWA (fume, total particulate)	15.000000 mg/m3	OSHA Z-1
		TWA (Fume - total particulate)	10.000000 mg/m3	OSHA P0
Silica Amorphous	112945-52-5	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO ₂	OSHA Z-3

Personal protective equipment

Respiratory protection : If the occupational exposure limits cannot be met, suitable respirator equipment shall be worn.

Hand protection
Remarks : Impervious gloves

Eye protection : Chemical resistant goggles must be worn.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : white

Odour : none

pH : not applicable

Freezing point : not applicable

Boiling point/boiling range : not applicable

Flash point :
does not flash

Evaporation rate : Not applicable

Upper explosion limit : Not applicable.

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Lower explosion limit	: Not applicable.
Vapour pressure	: no data available
Relative density	: not applicable
Bulk density	: 50.04 lb/ft3
Solubility(ies)	
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	: Exposure to moisture.
Incompatible materials	: Oxidizing agents Strong acids
Hazardous decomposition products	: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION
Acute toxicity**Components:****Pentaerythritol:**

Acute oral toxicity	: LD50 mouse: 18,500.000000 mg/kg
	LD50 rat: 18,500.000000 mg/kg
	LD50 rat: 19,500.000000 mg/kg
	LD50 rabbit: 18,500.000000 mg/kg
	LD50 mouse: 25,500.000000 mg/kg

Silica Amorphous:

Acute oral toxicity	: LD50 rat: > 5,000.000000 mg/kg
Acute inhalation toxicity	: LC50 :

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

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

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.

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SECTION 14. TRANSPORT INFORMATION
International regulation
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations
SECTION 15. REGULATORY INFORMATION

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

OSHA Hazards : Combustible dust

WHMIS Classification : D2B: Toxic Material Causing Other Toxic Effects

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

SARA 311/312 Hazards : No SARA Hazards

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

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations
Massachusetts Right To Know

Pentaerythritol	115-77-5
Magnesium oxide	1309-48-4

Pennsylvania Right To Know

Magnesium carbonate hydroxide	7760-50-1
Pentaerythritol	115-77-5
Magnesium oxide	1309-48-4
Silica Amorphous	112945-52-5

New Jersey Right To Know

Magnesium carbonate hydroxide	7760-50-1
Pentaerythritol	115-77-5
Magnesium oxide	1309-48-4
Silica Amorphous	112945-52-5

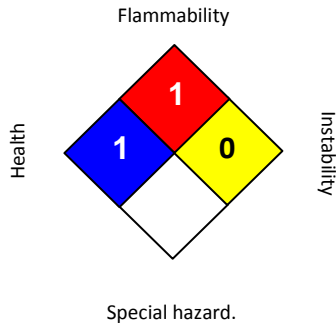
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NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

Safety Glasses, Gloves, Dust Respirator

SECTION 16. OTHER INFORMATION

Further information

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Chemetall US, Inc. warrants that the products described herein will conform with its published specifications.

The products supplied by Chemetall and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of the Chemetall materials for their own particular purpose. Since buyer's conditions of use of products are beyond Chemetall's control, Chemetall does not warrant any recommendations and information for the use of such products. CHEMETALL DISCLAIMS ALL OTHER WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE USE OF ITS PRODUCTS.