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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ARDROX® 9D1B AEROSOL

Substance number : REL_200509A

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	aerosol
Colour	white
Odour	sweet
Hazard Summary	Flammable/Combustible! Harmful by inhalation and if swallowed. Causes irritation of eyes and skin.

GHS Classification

Flammable aerosols : Category 1

Eye irritation : Category 2A

Carcinogenicity : Category 1A

Specific target organ toxicity

- single exposure

: Category 3 (Central nervous system)

GHS Label element

Hazard pictograms







Signal word : Danger



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Hazard statements : Extremely flammable aerosol.

Causes serious eye irritation.

May cause drowsiness or dizziness.

May cause cancer.

Precautionary statements : Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear eye protection/ face protection.

Use personal protective equipment as required.

Response:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or

doctor/ physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

IF exposed or concerned: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.

Storage:

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

Store locked up.

Protect from sunlight. Do not expose to temperatures

exceeding 50 °C/ 122 °F.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Potential Health Effects

Inhalation : yes

Skin : yes

Ingestion : yes

Aggravated Medical

Condition

: None known.

Carcinogenicity:

IARC Group 1: Carcinogenic to humans

Hydrous magnesium silicate 14807-96-6

ACGIH Confirmed human carcinogen

Hydrous magnesium silicate 14807-96-6

OSHA No component of this product present at levels greater than or



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equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP Known to be human carcinogen

Hydrous magnesium silicate 14807-96-6

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Hazardous components

Component	CAS-No.	Weight percent
ACETONE	67-64-1	30 - 50
Propane	74-98-6	10 - 20
2-Propanol	67-63-0	10 - 20
Butane	106-97-8	5 - 10
Hydrous magnesium silicate	14807-96-6	5 - 10
Isobutane	75-28-5	5 - 10

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 to fresh air.

If symptoms persist, call a physician.

If breathing is irregular or stopped, administer artificial

respiration.

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Get medical attention if irritation develops and persists

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 : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.



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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 Methods and materials for containment and cleaning up : Ensure adequate ventilation. Remove all sources of ignition.

: Ventilate area.

Remove all heat and ignition sources.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13). 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.

Take precautionary measures against static discharges.
Unscrew closure slowly. Allow all pressure to escape through

threads before removing closure

Conditions for safe storage : Keep containers dry and tightly closed to avoid moisture

absorption and contamination.

Store indoors in a cool, well-ventilated place

Keep away from open flames, hot surfaces and sources of

ignition.

Keep container out of sun and away from heat.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ACETONE	67-64-1	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		TWA	250 ppm 590.000000 mg/m3	NIOSH REL
		TWA	1,000 ppm 2,400.000000 mg/m3	OSHA Z-1
		TWA	750 ppm	OSHA P0



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1	1	1	1 4 000 00000	ı
			1,800.000000	
		OTEL	mg/m3	OCUA DO
		STEL	1,000 ppm 2,400.000000	OSHA P0
			mg/m3	
Propane	74-98-6	TWA	1,000 ppm	NIOSH REL
Гюрапе	74-90-0	IVVA	1,800.000000	NIOSITIKEE
			mg/m3	
		TWA	1,000 ppm	OSHA Z-1
		,	1,800.000000	00
			mg/m3	
		TWA	1,000 ppm	OSHA P0
			1,800.000000	
			mg/m3	
2-Propanol	67-63-0	TWA	200 ppm	ACGIH
·		STEL	400 ppm	ACGIH
		TWA	400 ppm	NIOSH REL
			980.000000	
			mg/m3	
		ST	500 ppm	NIOSH REL
			1,225.000000	
			mg/m3	
		TWA	400 ppm	OSHA Z-1
			980.000000	
			mg/m3	
		TWA	400 ppm	OSHA P0
			980.000000	
		0.751	mg/m3	00114 50
		STEL	500 ppm	OSHA P0
			1,225.000000	
Dutono	400.07.0	TWA	mg/m3	NIOSH REL
Butane	106-97-8	IVVA	800 ppm 1,900.000000	NIOSH KEL
			mg/m3	
		TWA	800 ppm	OSHA P0
		1 * * * * * * * * * * * * * * * * * * *	1,900.000000	0011/110
			mg/m3	
		STEL	1,000 ppm	ACGIH
		TWA (Dust)	20 Million	OSHA Z-3
			particles per cubic	
			foot	
		TWA	2.000000 mg/m3	NIOSH REL
		(Respirable)		
		TWA	0.1 fibre/cm3	ACGIH
		TWA	2.000000 mg/m3	ACGIH
		(Respirable		
		fraction)		
		TWA	2.000000 mg/m3	OSHA P0
		(respirable		
	—— 00 —	dust fraction))
Isobutane	75-28-5	TWA	800 ppm	NIOSH REL
			1,900.000000	
		CTE	mg/m3	ACC!!!
		STEL	1,000 ppm	ACGIH

Biological occupational exposure limits



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Component	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentratio n	Basis
ACETONE	67-64-1, 67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	50.0000 mg/l	ACGIH BEI
2-Propanol	67-63-0, 67-63-0	Acetone	Urine	End of shift at end of workwee k	40.0000 mg/l	ACGIH BEI

Personal protective equipment

Respiratory protection : If occupational exposure limits are exceeded, proper control

and protection measures should be implemented.

Hand protection

Remarks : Neoprene 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 : aerosol

Colour : white Odour : sweet

pH : no data available
Melting point/range : no data available
Boiling point/boiling range : no data available

Flash point

not applicable

Evaporation rate : GLP: No information available.



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Upper explosion limit : no data available
Lower explosion limit : no data available
Vapour pressure : no data available
Relative density : no data available
Bulk density : no data available

Solubility(ies)

Water solubility : negligible

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.

Exposure to sunlight.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : 2,800.000000 mg/kg

Method: Calculation method

Components:

ACETONE:

Acute oral toxicity : LD50 mouse: 3,000.000000 mg/kg

LD50 rat: 5,800.000000 mg/kg

LD50 rabbit: 5,340.000000 mg/kg

Acute inhalation toxicity : LC50 mouse: 44.000000 mg/l

Exposure time: 4 h



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> LC50 rat: 50.100000 mg/l Exposure time: 8 h

Acute dermal toxicity : LD50 guinea pig: 9,400.000000 mg/kg

Propane:

Acute inhalation toxicity : LC50 rat: 658.000000 mg/l

Exposure time: 4 h

2-Propanol:

: LD50 mouse: 3,600.000000 mg/kg Acute oral toxicity

LD50 rat: 5,045.000000 mg/kg

LD50 rabbit: 6,410.000000 mg/kg

Acute inhalation toxicity : LC50 rat: 16000 ppm

Exposure time: 8 h

: LD50 rabbit: 12,800.000000 mg/kg Acute dermal toxicity

Butane:

Acute inhalation toxicity : LC50 rat: 0.658000 mg/l

Exposure time: 4 h

Acute toxicity (other routes of : Humans:

administration)

Target Organs: Central nervous system

Hydrous magnesium silicate:

Acute oral toxicity : LD50 rat: 500.000000 mg/kg

Acute inhalation toxicity : LC50 rat: 0.500000 - 2.040000 mg/l

Acute dermal toxicity : LD50 rat: > 5,000.000000 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



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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.

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.



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OSHA Hazards : Carcinogen, Toxic by ingestion

WHMIS Classification : D2B: Toxic Material Causing Other Toxic Effects

A: Compressed Gas B5: Flammable aerosol

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ACETONE	67-64-1	5,000	10,684

SARA 311/312 Hazards : Chronic Health Hazard

Acute Health Hazard

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

ACETONE	67-64-1
Propane	74-98-6
2-Propanol	67-63-0
Butane	106-97-8
Hydrous magnesium silicate	14807-96-6
Isobutane	75-28-5

Pennsylvania Right To Know

ACETONE	67-64-1
Propane	74-98-6
2-Propanol	67-63-0
Butane	106-97-8
Hydrous magnesium silicate	14807-96-6
Isohutane	75-28-5

New Jersey Right To Know

ACETONE	67-64-1
Propane	74-98-6
2-Propanol	67-63-0
Butane	106-97-8
Hydrous magnesium silicate	14807-96-6
Isobutane	75-28-5



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NFPA: Flammability 2 O Instability Special hazard.

HMIS III:

HEALTH	2
FLAMMABILITY	4
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

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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.