

ARDROX® 3962

Version 0.1

Revision Date 07/07/2015

Print Date 07/10/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ARDROX® 3962

Substance number : REL_200269

Chemical usage : Temporary corrosion inhibitor.

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	liquid
Colour	light yellow
Odour	solvent-like
Hazard Summary	Combustible material Irritating to eyes. May cause skin irritation. Also harmful by inhalation and if swallowed.

GHS Classification

Flammable liquids : Category 3

GHS Label element

Hazard pictograms :



Signal word : Warning

Hazard statements : Flammable liquid and vapour.

Precautionary statements

Prevention:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.

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Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.

Take precautionary measures against static discharge.
Wear protective gloves/ eye protection/ face protection.

Response:

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep cool.

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 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

Suspected human carcinogen

Hydrotreated heavy petroleum paraffinic distillates 64742-65-0

Confirmed animal carcinogen with unknown relevance to humans

Aromatic Hydrocarbon 64742-95-6

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

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Substance / Mixture :

Hazardous components

Component	CAS-No.	Weight percent
Medium aliphatic petroleum naphtha	8052-41-3	70 - 90
Hydrotreated heavy petroleum paraffinic distillates	64742-65-0	10 - 20
Aromatic Hydrocarbon	64742-95-6	10 - 20
2-Butoxy ethanol	111-76-2	0.1 - 1

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 : Carbon dioxide (CO₂)
 Dry chemical
 Foam
 Water spray

Further information : Cool containers / tanks with water spray.
 Closed containers may explode when exposed to heat.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
 Keep containers cool to prevent rupturing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : Ensure adequate ventilation.

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protective equipment and emergency procedures	Evapourates. Remove all sources of ignition.
Methods and materials for containment and cleaning up	: Ventilate area. Remove all heat and ignition sources. Clean up with inert absorbant 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	: Electrically bond and ground all containers and equipment before transfer or use of material. Use only with adequate ventilation. 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
Medium aliphatic petroleum naphtha	8052-41-3	TWA	100 ppm	ACGIH
		TWA	350.000000 mg/m3	NIOSH REL
		C	1,800.000000 mg/m3	NIOSH REL
		TWA	500 ppm 2,900.000000 mg/m3	OSHA Z-1
		TWA	100 ppm 525.000000 mg/m3	OSHA P0
Hydrotreated heavy petroleum paraffinic distillates	64742-65-0	TWA (Mist)	5.000000 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5.000000 mg/m3	ACGIH
		TWA (Mist)	5.000000 mg/m3	NIOSH REL

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		ST (Mist)	10.000000 mg/m3	NIOSH REL
		TWA (Mist)	5.000000 mg/m3	OSHA P0
Aromatic Hydrocarbon	64742-95-6	TWA	500 ppm 2,000.000000 mg/m3	OSHA Z-1
		TWA	200.000000 mg/m3 (as total hydrocarbon vapor)	ACGIH
		TWA	400 ppm 1,600.000000 mg/m3	OSHA P0
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

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
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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: light yellow
Odour	: solvent-like
pH	: not applicable
Freezing point	: no data available
Boiling point/boiling range	: no data available
Flash point	: 45 °C Method: Tag closed cup
Evaporation rate	: (Butyl Acetate=1) Less than 1
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative density	: 0.814
Bulk density	: 6.79 lb/gal
Solubility(ies)	
Water solubility	: insoluble
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:

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

Acute inhalation toxicity : Acute toxicity estimate : 23.110000 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 3,734.000000 mg/kg
Method: Calculation method

Components:**Medium aliphatic petroleum naphtha:**

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

Acute dermal toxicity : LD50 rabbit: 3,000.000000 mg/kg

Hydrotreated heavy petroleum paraffinic distillates:

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

Acute inhalation toxicity : LC50 rat: > 4.700000 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 rabbit: > 5,000.000000 mg/kg

Aromatic Hydrocarbon:

Acute oral toxicity : LD50 rat: > 2,900.000000 mg/kg

Acute inhalation toxicity : LC50 rat: 2900 ppm

Acute dermal toxicity : LD50 rabbit: > 3,160.000000 mg/kg

2-Butoxy ethanol:

Acute oral toxicity : LD50 rat: 917.000000 mg/kg

LD50 rat: 470.000000 mg/kg

LD50 rabbit: 320.000000 mg/kg

LD50 rabbit: 300.000000 mg/kg

LD50 mouse: 1,167.000000 mg/kg

LD50 mouse: 1,230.000000 mg/kg

Acute inhalation toxicity : LC50 rat: 700 ppm
Exposure time: 7 h
Test atmosphere: vapour

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Acute dermal toxicity : LD50 guinea pig: 230.000000 mg/kg

LD50 rabbit: 220.000000 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,

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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.**OSHA Hazards** : Combustible Liquid, Toxic by inhalation., Carcinogen
WHMIS Classification : D2B: Toxic Material Causing Other Toxic Effects
B3: Combustible Liquid**EPCRA - Emergency Planning and Community Right-to-Know Act****SARA 311/312 Hazards** : Fire Hazard
Acute Health Hazard
Chronic 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**

Medium aliphatic petroleum naphtha	8052-41-3
Hydrotreated heavy petroleum paraffinic distillates	64742-65-0

Pennsylvania Right To Know

Medium aliphatic petroleum naphtha	8052-41-3
Hydrotreated heavy petroleum paraffinic distillates	64742-65-0
Aromatic Hydrocarbon	64742-95-6

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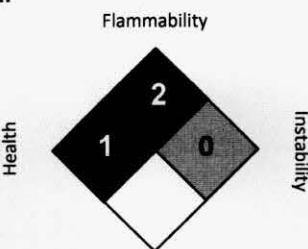
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New Jersey Right To Know

Medium aliphatic petroleum naphtha	8052-41-3
Hydrotreated heavy petroleum paraffinic distillates	64742-65-0
Aromatic Hydrocarbon	64742-95-6
Trade secret registry	(735517)- 5198P
Tall oil	8002-26-4
2-Butoxy ethanol	111-76-2

NFPA:

Special hazard.

HMIS III:

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0

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

 Splash Goggles, Gloves, Apron, 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.