

ARDROX® 5515

Version 0.1

Revision Date 06/05/2015

Print Date 06/08/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ARDROX® 5515

Substance number : REL_200317

Chemical usage : Solvent

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	colourless
Odour	solvent-like
Hazard Summary	Flammable/Combustible! Causes irritation of eyes and skin. Also toxic by inhalation and if swallowed.

GHS Classification

Flammable liquids : Category 3

Eye irritation : Category 2A

Specific target organ toxicity
- single exposure : Category 3 (Respiratory system, Central nervous system)**GHS Label element**

Hazard pictograms :



Signal word : Warning

Hazard statements : Flammable liquid and vapour.
Causes serious eye irritation.

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May cause respiratory irritation.
 May cause drowsiness or dizziness.

Precautionary statements

: **Prevention:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 Wash skin thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 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.
 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 eye irritation persists: Get medical advice/ attention.
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

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

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

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

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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
Sec-Butyl Alcohol	78-92-2	50 - 70
2-Butanone	78-93-3	30 - 50

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 : Dry chemical
Foam
Water spray
Carbon dioxide (CO₂)
- Further information : Use water spray to cool unopened containers.
- Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

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for firefighters

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Evacuate personnel to safe areas.
Remove all sources of ignition.
Wear respiratory protection.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- 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 : Use only with adequate ventilation.
Open container with care, using adequate ventilation and avoiding ignition sources.
Unscrew closure slowly. Allow all pressure to escape through threads before removing closure
Drums should be grounded and bonded to receiving container when being emptied.
- 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
Sec-Butyl Alcohol	78-92-2	TWA	100 ppm	ACGIH
		TWA	100 ppm 305.000000 mg/m3	NIOSH REL
		ST	150 ppm 455.000000 mg/m3	NIOSH REL
		TWA	150 ppm	OSHA Z-1

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			450.000000 mg/m3	
		TWA	100 ppm 305.000000 mg/m3	OSHA P0
2-Butanone	78-93-3	TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
		TWA	200 ppm 590.000000 mg/m3	NIOSH REL
		ST	300 ppm 885.000000 mg/m3	NIOSH REL
		TWA	200 ppm 590.000000 mg/m3	OSHA Z-1
		TWA	200 ppm 590.000000 mg/m3	OSHA P0
		STEL	300 ppm 885.000000 mg/m3	OSHA P0

Biological occupational exposure limits

Component	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-Butanone	78-93-3, 78-93-3	MEK	Urine	End of shift (As soon as possible after exposure ceases)	2.0000 mg/l	ACGIH BEI

Personal protective equipment

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

Hand protection
Remarks : Solvent-resistant 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	: colourless
Odour	: solvent-like
pH	: not applicable
Freezing point	: no data available
Boiling point/boiling range	: no data available
Flash point	: 27 °C
Evaporation rate	: (Water = 1) Greater than 1
Upper explosion limit	: 10.90 %(V)
Lower explosion limit	: 1.20 %(V)
Relative vapour density	: 100
Relative density	: 0.810
Bulk density	: 6.76 lb/gal
Solubility(ies)	
Water solubility	: partly miscible
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 dioxide (CO ₂) Carbon monoxide

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SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate : 2,392.000000 mg/kg
Method: Calculation method

Components:**Sec-Butyl Alcohol:**

Acute oral toxicity : LD50 rabbit: 4,893.000000 mg/kg

LD50 rat: 6,200.000000 mg/kg

LD50 rat: 2,193.000000 mg/kg

LD50 rabbit: 4,900.000000 mg/kg

Acute inhalation toxicity : LC50 rat: 48.500000 mg/l
Exposure time: 4 h

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

2-Butanone:

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

LD50 rat: 2,737.000000 mg/kg

Acute inhalation toxicity : LC50 rat: 23500 mg/m3
Exposure time: 8 h

LC50 mouse: 32 gm/m3
Exposure time: 4 h

Acute dermal toxicity : LD50 rabbit: 6,480.000000 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

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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**Components:****Sec-Butyl Alcohol :**Partition coefficient: n-
octanol/water : log Pow: 0.146**2-Butanone :**Partition coefficient: n-
octanol/water : log Pow: 0.29**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

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SECTION 15. REGULATORY INFORMATION

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

OSHA Hazards : Flammable liquid
WHMIS Classification : B2: Flammable liquid
 D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2-Butanone	78-93-3	5,000	11,945

SARA 311/312 Hazards : Fire 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

Sec-Butyl Alcohol	78-92-2
2-Butanone	78-93-3

Pennsylvania Right To Know

Sec-Butyl Alcohol	78-92-2
2-Butanone	78-93-3

New Jersey Right To Know

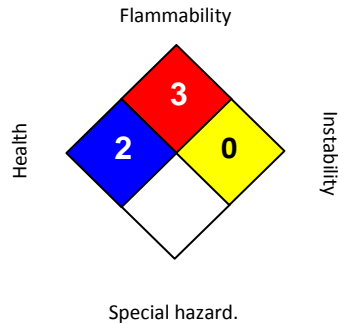
Sec-Butyl Alcohol	78-92-2
2-Butanone	78-93-3

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NFPA:**HMIS III:**

HEALTH	2
FLAMMABILITY	3
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.