### **Safety Data Sheet:**

(888)780-3229 (Option 2)

**Technical Service** 

CORROSHIELD Inspect. Prescribe. Protect.

Revision Date: 08/14/19

# Corro Cure 2504 Part B

# 1. Product and Company Identification

Product Name:Corro Cure 2504Product Class:Epoxy Hardener, Part BProduct Type:Cycloaliphatic Amine

D.O.T. Category: No dangerous goods

Manufacturer: Corroshield Industries Inc.

2575 United Lane Elk Grove, IL 60009

**Telephone:** 847/298-7770

Emergency: 1-800/535-5053 INFOTRAC

### 2. Hazards Identification

#### **GHS** classification

Acute toxicity – Oral:Category 4Skin corrosion:Category 2Serious Eye Damage:Category 1Skin sensitization:Category 1

Specific target organ

toxicity – repeated exposure – Oral: Category 2

#### GHS label elements

Description: Resin Compound D.O.T. Not Regulated.

Hazard pictograms/symbols:



Signal Word: Danger

Hazard Statements: H302:Harmful if swallowed.

H315 Causes skin irritation

H317:May cause an allergic skin reaction.

H373a:May cause damage to organs through prolonged or repeated exposure if

swallowed.

H318:Causes serious eye damage

**Precautionary Statements:** 

Response:

Prevention: P260:Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P280:Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331:IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353:IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P305+P351+P338:IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.
P310 :Immediately call a POISON CENTRE or doctor/physician.
P333+P313 :If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

Disposal: P501:Disposal of contents/container to be specified in accordance with regulations.



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**Hazards not otherwise classified:** Components of the product may affect the nervous system. Mild skin irritant.

Risk of serious damage to eyes. Harmful if swallowed.

### 3. Composition/Information on Ingredients

<40 % Benzyl alcohol Cas. No. 100-51-6,

<5% Methylenebiscyclohexanamine, 4,4' Cas. No. 1761-71-3,

<40% Methyleneoxide, polymer with benzenamine, hydrogenated Cas. No. 135108-88-2

### 4. First Aid Measures

General Advice: Seek medical advice. If breathing has stopped or is labored, give assisted respirations.

Supplemental oxygen may be indicated. If the heart has stopped, trained personnel

should begin cardiopulmonary resuscitation immediately.

Eye Contact: Rinse immediately with plenty of water also under the eyelids for at least 20 minutes.

Remove contact lenses.

Skin Contact: Wash off immediately with plenty of water for at least 20 minutes. Immediately

remove contaminated clothing, and any extraneous chemical, if possible to do so

without delay.

Ingestion: Never give anything by mouth to an unconscious person. Prevent aspiration of vomit.

Turn victim's head to the side.

Inhalation: Move to fresh air.

Most Important symptoms/

effects- acuate and delayed: Neurological disorders Eye disease. Skin disorders and Allergies.

### 5. Fire-Fighting Measures

Suitable extinguishing media: Alcohol-resistant foam.

Carbon dioxide (CO2).

Dry chemical. Dry sand.

Limestone powder.

Specific hazards: Incomplete combustion may form carbon monoxide. May generate ammonia gas. May

generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes.

Downwind personnel must be evacuated.

Special protective equipment for fire-fighters: Avoid contact with the skin. Use personal protective equipment. Wear self contained

breathing apparatus for fire fighting if necessary

### 6. Accidental Release Measures

Personal Precautions, Protective

Equipment and Emergency Procedures: Wear suitable protective clothing, gloves and eye/face protection. Use self-contained

breathing apparatus and chemically protective clothing. Evacuate personnel to safe

areas.

Environmental precautions: Construct a dike to prevent spreading.

Methods for cleaning up: Approach suspected leak areas with caution. Place in appropriate chemical waste

container.

Additional advice: If possible, stop flow of product.

# 7. Handling and Storage

Handling: Do not use sodium nitrite or other nitrosating agents in formulations containing this

product. Suspected cancer-causing nitrosamines could be formed. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use personal

protective equipment. When using, do not eat, drink or smoke.



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Storage: Do not store near acids. Keep away from alkalis. Keep containers tightly closed in a dry,

cool and well-ventilated place.

# 8. Exposure Controls/Personal Protection

Engineering measures: Provide readily accessible eye wash stations and safety showers.

Provide natural or explosion-proof ventilation adequate to ensure concentrations are

kept below exposure limits.

Personal Protective Equipment

Respiratory protection: Not required for properly ventilated areas.

Hand protection: Butyl-rubber

Nitrile rubber. Neoprene gloves. Impervious gloves.

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Eye protection: Chemical resistant goggles must be worn.

Skin and body protection: Long sleeve shirts and trousers without cuffs. Impervious clothing

Special instructions for protection and hygiene: Discard contaminated leather articles. Wash hands at the end of each workshift and

before eating, smoking or using the toilet. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Provide readily accessible eye wash

stations and safety showers.

Exposure Limit(s)

Benzyl alcohol Time Weighted Average (TWA): WEEL 10 ppm 44.20 mg/m3

# 9. Pysical and Chemical Properties

Appearance: Liquid. Amber colour

Odor: Ammoniacal.
Odor threshold: No data available.

pH: Alkaline

Meleting point/range:

Boiling point/range:

Flash point:

Evaporation rate:

Flammability (solid, gas):

Upper/lower explosion/flammability limit:

No data available.

Not applicable.

Not applicable

Vapor pressure: 0.70 mmHg at 70 °F (21 °C)

Water solubility: No data available Relative vapor density: Not applicable 1.06 (water = 1)Relative density: Partition coefficient (n-octanol/water): No data available No data available Auto-ignition temperature: No data available Decomposition temperature: Viscosity: No data available Molecular Weight: No data available

Density: 66.174 lb/ft3 (1.06 g/cm3) at 70 °F (21 °C)

# 10. Stability and Reactivity

Chemical Stability: Stable under normal conditions

Conditions to avoid: no data available

Materials to avoid: Amines.

Incompatible with bases. Reducing agents.

Reactive metals (e.g. sodium, calcium, zinc etc.).



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Materials reactive with hydroxyl compounds.

CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

Nitrous acid and other nitrosating agents. Organic acids (i.e. acetic acid, citric acid etc.).

Mineral acids.
Sodium hypochlorite.

Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide

possibly creating an explosion.

Oxidizing agents.

Hazardous decomposition products: Nitric acid.

Ammonia

Nitrogen oxides (NOx).

Nitrogen oxide can react with water vapors to form corrosive nitric acid.

Carbon monoxide. Carbon dioxide (CO2).

Aldehydes

Flammable hydrocarbon fragments.

Nitrosamine. Organic acid vapors

Possibility of hazardous Reactions/Reactivity: No data available

### 11. Toxicological Information

11.1 Information on toxicological effects

Likely routes of exposure

Effects on eye: Causes eye burns

Effects on skin: If absorbed through the skin, may cause central nervous system effects, such as

headache, nausea, dizziness, confusion, breathing difficulties. Mild skin irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Inhalation effects: May cause central nervous system effects, such as headache, nausea, dizziness,

confusion, breathing difficulties. Severe cases of overexposure can result in respiratory

failure.

Ingestion effects: Harmful if swallowed Symptoms: No data available

**Acute Toxicity** 

Acute Oral Toxicity: LD50:1,200 mg/kg Species: Rat
Inhalation: No data is available on the product itself

Inhalation – Components

Benzyl alcohol: LC50 (4 h) :> 4.178 mg/l Species : Rat. OECD Test Guideline 403

Acute Dermal Toxicity: No data is available on the product itself.

Acute Dermal Toxicity - Components

Benzyl alcohol LD50 : 2,000 mg/kg Species : Rabbit.

Methylenebiscyclohexanamine, 4,4'- LD50 : 2,110 mg/kg Species : Rabbit.

Methyleneoxide, polymer with benzenamine, hydrogenated LD50 : > 2,000 mg/kgEstimated Species : Rabbit

Skin corrosion/irritation: Mild irritant to the skin of a rabbit Serious eye damage/eye irritation: Risk of serious damage to eyes.

Sensitization: May cause sensitization of susceptible persons by skin contact

Chronic toxicity or effects from long term exposures

Carcinogenicity: No data available

Reproductive toxicity: No data is available on the product itself
Germ cell mutagenicity: No data is available on the product itself





Specific target organ systemic toxicity (single exposure):
Specific target organ systemic

toxicity (repeated exposure):

Aspiration hazard:

No data available.

No data available

No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure:

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Neurological disorders, Eye disease., Skin disorders and Allergies

Mixed polycycloaliphatic amines was tested in rats for systemic effects in a subchronic (28-day) oral study at doses ranging from 15 to 300 mg/kg/day. Effects seen at 300 mg/kg/day included decreased survival, decreased body weight gain, increased liver, kidney, and adrenal weights and histological changes in the liver, kidney, adrenals and spleen. The No-Observed-Adverse-Effect-Level (NOAEL) was 15 mg/kg/day., Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two-year study with rats and mice.

# 12. Ecological Information

#### **Ecotoxicity effects**

Aquatic toxicity	Data	Species
Toxicity to fish - Components		
Benzyl alcohol	LC50 (96 h): 10 mg/l	Bluegill sunfish (Lepomis macrochirus)
Benzyl alcohol	LC50 (96 h): 460 mg/l	Fathead minnow (Pimephales promelas)
Methylenebiscyclohexanamine, 4,4'	LC0 (96 h): 46 mg/l	Golden orfe (Leuciscus idus)
Methylenebiscyclohexanamine, 4,4'	LC50 (96 h) :> 100 mg/l	Golden orfe (Leuciscus idus)
Toxicity to daphnia – Components		
Methylenebiscyclohexanamine, 4,4'	EC50 (48 h): 6.84 mg/l	Daphnia magna
Toxicity to algae – Components		
Benzyl alcohol	IC50 (72 h): 700 mg/l	Algae
Methylenebiscyclohexanamine, 4,4'	EC50 (72 h): 140 - 200 mg/l	Algae
Toxicity to other organisms	No data available	

Persistence and degradability

Biodegradability: No data is available on the product itself

Mobility: No data available

Bioaccumulation: No data is available on the product itself

**Bioaccumulation - Components** 

Benzyl alcohol Methyleneoxide, polymer with benzenamine, hydrogenated Does not bioaccumulate.

# 13. Disposal Considerations

Waste from residues/unused products: Disposal of container and unused contents in accordance with Federal, State and Local

Regulations

Contaminated packaging: Disposal of container and unused contents in accordance with Federal, State and Local

Regulations

# **14.Transport Information**

DOT: Not dangerous goods IATA: Not dangerous goods IMDG: Not dangerous goods TDG: Not dangerous goods





### 15. Regulatory Information

Toxic Substance Control Act (TSCA) 12(b) Component(s): None. USA: regulatory list: TSCA, included on inventory Canada: regulatory list: DSL, not on inventory

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification

Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level

None

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

WHMIS Ingredient Disclosure List. WHMIS Trade Secret Registry Number(s) 5017 Grant date 1/4/2005

### 16. Other Information

### **HMIS Rating**

Health: 2
Flammability: 1
Physical hazard: 0

Revision Date: August 14, 2019

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