

* 1 Identification

- **Product identifier** H1301
- **Trade name:** Durapot 862 Hardener
- **Article number:** 862H
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Cotronics Corp
131 47th Street
Brooklyn, NY 11232
USA
- **Information department:** In the event of an emergency please call Chemtrec at 1 800-424-9300 (24 hour)

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Harmful

Harmful if swallowed.



Irritant

Irritating to respiratory system and skin. Risk of serious damage to eyes. May cause sensitisation by skin contact.

- **Information concerning particular hazards for human and environment:**

The product has to be labeled due to the calculation procedure of international guidelines.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**

- **Labeling according to EU guidelines:** The product has been classified and marked in accordance with directives on hazardous materials.

- **Code letter and hazard designation of product:**



Harmful

- **Risk phrases:**

Harmful if swallowed.

Irritating to respiratory system and skin.

Risk of serious damage to eyes.

May cause sensitisation by skin contact.

- **Safety phrases:**

Keep away from food, drink and animal feedingstuffs.

When using do not eat or drink.

Do not breathe vapour.

Do not breathe fumes.

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Wear suitable protective clothing, gloves and eye/face protection.

In case of insufficient ventilation, wear suitable respiratory equipment.

If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

After contact with skin, wash immediately with plenty of soap and water.

Keep container tightly closed.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 3

Fire = 1

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

*** 3 Composition/information on ingredients**

· **Chemical characterization: Mixtures**

· **Description:** Nonhazardous materials will not be listed separately

· **Components:**

Not a dangerous substance according to GHS

25134-21-8 Acid Anhydride Complex

50-<100%

56-81-5 Glycerol

2.5-<10%

552-30-7 Anhydride

5-<10%

288-32-4 Imidazole

0.1-<0.5%

*** 4 First-aid measures**

· **Description of first aid measures**

· **General information:** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and call for a doctor.

Move to a place with fresh air and keep at rest.

In case of unconsciousness and call a doctor.

If transporting move stably into a side position for transportation.

· **After skin contact:**

Wash with soap and water.

If irritated or rash develops seek medical attention

· **After eye contact:**

Rinse opened eye for several minutes under running water.

Get medical attention

· **After swallowing:** Never Induce vomiting, immediately call a doctor.

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

*** 5 Fire-fighting measures**

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters** Wear self-contained breathing apparatus, if necessary

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· **Protective equipment:** Use personal protective equipment.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

* 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Keep in sealed containers
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep sealed container(s) at room temperature
- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
56-81-5 Glycerol
PEL Long-term value: 15* 5** mg/m³
mist; *total dust **respirable fraction
TLV TLV withdrawn-insufficient data human occup. exp.
552-30-7 Anhydride
REL Long-term value: 0.04 mg/m³, 0.005 ppm
Handle as extremely toxic substance
TLV Short-term value: 0.002* mg/m³
Long-term value: 0.0005* mg/m³
Skin;DSEN, RSEN;*inh. fraction + vapor
- **Additional information:** Personal protection is required while machining this material. Use suitable face/eye/hand protection.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Do not eat or drink while working.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
Do not inhale vapors or fumes.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** Impervious gloves

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· Eye protection:



Tightly sealed goggles

* 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Liquid
Color: Light yellow
Odor: Low Odor

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Not Applicable.
Boiling point/Boiling range: Not applicable

· Flash point: > 135 °C (> 275 °F)

· Flammability (solid, gaseous): Not Applicable.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not Applicable
Upper: Not Applicable.

· Vapor pressure: Not determined.

· Density at 20 °C (68 °F): 1.21 g/cm³ (10.097 lbs/gal)

· Solubility in / Miscibility with Water: Not miscible or difficult to mix.

· Viscosity at 20 °C (68 °F): 320 cps (Brookfield Viscometer)

· Solvent content:

Organic solvents: <.2 %

· Other information No further relevant information available.

* 10 Stability and reactivity

· Reactivity

· Chemical stability Stable under recommended storage conditions.

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

· Incompatible materials: Acids, acid anhydrides, strong oxidizing agents

· Hazardous decomposition products: Carbon oxides, nitrogen oxides, hydrogen cyanide

* 11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

25134-21-8 Acid Anhydride Complex

Oral LD50 915-958 mg/kg (Rat) (RTECS)
behavioral:simolence (general depressed activity) Kidney, Ureter, Bladder Nutritional and Gross metabolic weight gain or loss

Dermal LD50 4290 mg/kg (Rat)
Bahavioral Somnolence, lungs, t
horax, or respiration : other changes

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Inhalative LC10 750 mg/m³ (Rat) (RTECS)
4 hours

552-30-7 Anhydride

Oral LD50 5600 mg/kg (Rat)

288-32-4 Imidazole

Oral LD50 880 mg/kg (Mouse)

970 mg/kg (Rat)

· **Primary irritant effect:**

· **On the skin:** Irritating to skin.

· **On the eye:** Strong irritant with the danger of severe eye injury.

· **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the materials are listed

· **NTP (National Toxicology Program)**

None of the materials are listed

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the materials are listed

***12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:**

288-32-4 Imidazole

EC50/48 h 341.5 mg/l (Daphnia magna)

EC50/72 h (static) 133 mg/l (Scenedesmus subspicatus)

LC50/48 h (static) 280 mg/l (Golden orfe)

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

***13 Disposal considerations**

· **Waste treatment methods**

· **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Dispose material in accordance with federal, state, local and international regulations.

***14 Transport information**

· **UN-Number**

· **DOT, ADR, ADN, IMDG, IATA**

Not Regulated for Transport

· **UN proper shipping name**

· **DOT, ADR, ADN, IMDG, IATA**

Not Regulated for Transport

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- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Not Regulated for Transport
- **Packing group**
- **DOT, ADR, IMDG, IATA** Not Regulated for Transport
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA**
- **Section 313 (specific toxic chemical listings):**
None of the ingredients are listed.
- **Section 302 (extremely hazardous substance):**
None of the ingredients are listed
- **Section 304 (emergency release notification):**
None of the ingredients are listed
- **Sections 311/312 (hazards)**
25134-21-8 Acid Anhydride Complex: Acute
56-81-5 Glycerol: Chronic
552-30-7 Anhydride: Chronic, Acute
288-32-4 Imidazole: Chronic, Acute
64742-95-6 Solvent naphtha (petroleum), light aroma: Fire
- **TSCA (Toxic Substances Control Act) (Substances not listed):**
All ingredients are listed.
- **Proposition 65**
- **Chemicals known to cause cancer:**
None of the ingredients are listed
- **Chemicals known to cause reproductive toxicity:**
None of the materials are listed
- **Chemicals known to cause reproductive toxicity for females:**
None of the materials are listed
- **Chemicals known to cause reproductive toxicity for males:**
None of the materials are listed
- **Chemicals known to cause developmental toxicity:**
None of the materials are listed
- **Pennsylvania Right To Know Components**
25134-21-8 Acid Anhydride Complex
56-81-5 Glycerol
552-30-7 Anhydride
288-32-4 Imidazole
50995-95-4 Imidazole
64742-95-6 Solvent naphtha (petroleum), light aroma
- **Massachusetts Right To Know Components**
56-81-5 Glycerol
552-30-7 Anhydride
- **New Jersey Right To Know Components**
25134-21-8 Acid Anhydride Complex
56-81-5 Glycerol
552-30-7 Anhydride
288-32-4 Imidazole
50995-95-4 Imidazole
- **Rhode Island Right To Know Components**
56-81-5 Glycerol

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· **Minnesota Right To Know Components**

None of the ingredients are listed

· **Florida Right To Know Components**

None of the ingredients are listed

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients are listed

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

If none of the ingredients are listed

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**



Harmful

· **Risk phrases:**

Harmful if swallowed.

Irritating to respiratory system and skin.

Risk of serious damage to eyes.

May cause sensitisation by skin contact.

· **Safety phrases:**

Keep away from food, drink and animal feedingstuffs.

When using do not eat or drink.

Do not breathe vapour.

Do not breathe fumes.

Wear suitable protective clothing, gloves and eye/face protection.

In case of insufficient ventilation, wear suitable respiratory equipment.

If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

After contact with skin, wash immediately with plenty of soap and water.

Keep container tightly closed.

16 Other information

To the best of our knowledge, the information contained herein is correct. Cotronics does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. We do not guarantee that the hazards described herein are the only hazards that exist.

· **Department issuing SDS:** Environment protection department.

· **Contact:** Dr. Alan Reznik

· **Date of preparation / last revision** 09/06/2016 / 13

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· *** Data compared to the previous version altered.**

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/16/2015

Revised on 09/16/2015

Trade name: Durapot 862 Resin

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· Safety phrases:*Keep away from food, drink and animal feedingstuffs.**When using do not eat or drink.**Avoid contact with skin and eyes.**Wear suitable protective clothing, gloves and eye/face protection.**In case of insufficient ventilation, wear suitable respiratory equipment.**If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.**In case of accident by inhalation: remove casualty to fresh air and keep at rest.**After contact with skin, wash immediately with plenty of soap and water.**Keep container tightly closed.***16 Other information**

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VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

· * Data compared to the previous version altered.

USA