

SECTION 1: Identification

1.1. Product identifier

Product name : PENRAY RTO
Product code : 200264

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Oil purge

1.3. Details of the supplier of the safety data sheet

Manufacturer

The Penray Companies, Inc.
440 Denniston Ct.
60090 Wheeling, IL
T (800) 373-6729
rotto@penray.com

1.4. Emergency telephone number

Emergency number : (800) 373-6729
CHEMTREC (800) 424-9300
CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-CA classification

Acute Tox. 4 (Inhalation) H332
Skin Corr. 1B H314
Eye Dam. 1 H318
Repr. 1B H360
STOT RE 1 H372
HHNOC 1

2.2. Label elements

GHS-CA labelling

Hazard pictograms (GHS-CA) :



GHS05

GHS07

GHS08

Signal word (GHS-CA) : Danger

Hazard statements (GHS-CA) : H332 - Harmful if inhaled
H314 - Causes severe skin burns and eye damage
H360 - May damage fertility or the unborn child
H372 - Causes damage to organs through prolonged or repeated exposure
HHNOC1 - Causes severe damage to the respiratory tract

Precautionary statements (GHS-CA) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P264 - Wash hands, forearms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308+P313 - IF exposed or concerned: Get medical advice/attention
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P310 - Immediately call a POISON CENTER or doctor
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
P363 - Wash contaminated clothing before reuse
P310 - Immediately call a POISON CENTER or doctor
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P310 - Immediately call a POISON CENTER or doctor
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 CENTER or doctor
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-CA)

10 % of the mixture consists of ingredients of unknown acute inhalation toxicity

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % |
|---|---------------------|------|
| 2-Butoxyethanol | (CAS No) 111-76-2 | 6.00 |
| Tribasic sodium phosphate dodecahydrate | (CAS No) 10101-89-0 | 5.88 |
| Sodium dodecylbenzenesulfonate | (CAS No) 25155-30-0 | 2.16 |
| Disodium tetraborate pentahydrate | (CAS No) 12179-04-3 | 1.00 |
| Sodium hydroxide | (CAS No) 1310-73-2 | 0.14 |

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Harmful if inhaled. Causes severe damage to the respiratory tract.
- Symptoms/injuries after skin contact : Causes severe skin burns. Symptoms may include redness, pain, blisters.
- Symptoms/injuries after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
- Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical. Carbon dioxide. Water spray.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon, oxides of nitrogen, oxides of sulphur, aldehydes, ketones, organic acids.
- Reactivity : No dangerous reaction known under conditions of normal use.

5.3. Advice for firefighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid contact with skin and eyes.

6.2. Environmental precautions

No additional information available.

6.3. Methods and material for containment and cleaning up

- For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

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6.4. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe gas, fumes, vapour or spray. Do not swallow. Handle and open container with care. Provide adequate ventilation. Do not eat, drink or smoke when using this product.
- Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store locked up. Store in a cool, well-ventilated place.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 2-Butoxyethanol (111-76-2) | | |
|--|--|--|
| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| IDLH | US IDLH (ppm) | 700 ppm |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 24 mg/m ³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 5 ppm |
| Disodium tetraborate pentahydrate (12179-04-3) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 2 mg/m ³ (inhalable fraction) |
| ACGIH | ACGIH STEL (mg/m ³) | 6 mg/m ³ (inhalable fraction) |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 1 mg/m ³ |
| Sodium hydroxide (1310-73-2) | | |
| ACGIH | ACGIH TWA (ceiling) (mg/m ³) | 2 mg/m ³ |

8.2. Exposure controls

- Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, etc.) below recommended exposure limits.
- Hand protection : Wear chemically resistant protective gloves.
- Eye protection : Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls : Maintain levels below Community environmental protection thresholds.
- Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear
- Colour : Colourless
- Odour : Odourless
- Odour threshold : No data available
- pH : 9 - 11.4
- pH solution : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Relative evaporation rate (ether=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : 100 - 102 °C (212 - 215 °F)
- Flash point : No data available

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| | |
|---|---------------------|
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not flammable |
| Vapour pressure | : No data available |
| Vapour pressure at 50 °C | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 1.057 - 1.067 |
| Relative density of saturated gas/air mixture | : No data available |
| Density | : No data available |
| Relative gas density | : No data available |
| Solubility | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, kinematic (calculated value) (40 °C) | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |
| Lower explosive limit (LEL) | : No data available |
| Upper explosive limit (UEL) | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Acids. Amines. Ammonia. Bases. Chlorates. Chlorine. Strong oxidizing agents. Strong bases. Reducing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, oxides of nitrogen, oxides of sulphur, aldehydes, ketones, organic acids.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled

| 200264 | |
|---------------------|---|
| LD50 oral rat | > 2000 mg/kg (Calculated Acute Toxicity Estimate) |
| LD50 dermal rabbit | > 2000 mg/kg (Calculated Acute Toxicity Estimate) |
| LC50 inhalation rat | > 10 but ≤ 20 mg/l/4h (Calculated using ATE values) |

| 2-Butoxyethanol (111-76-2) | |
|-----------------------------------|------------|
| LD50 oral rat | 470 mg/kg |
| LD50 dermal rabbit | 99 mg/kg |
| LC50 inhalation rat | 450 ppm/4h |

| Tribasic sodium phosphate dodecahydrate (10101-89-0) | |
|---|------------|
| LD50 oral rat | 7400 mg/kg |

| Sodium dodecylbenzenesulfonate (25155-30-0) | |
|--|-----------|
| LD50 oral rat | 500 mg/kg |

| Disodium tetraborate pentahydrate (12179-04-3) | |
|---|------------|
| LD50 oral rat | 2403 mg/kg |

| | |
|-------------------------------|------------------------------|
| Skin corrosion/irritation | : Causes severe skin burns. |
| Serious eye damage/irritation | : Causes serious eye damage. |

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| | |
|-----------------------------------|---|
| Respiratory or skin sensitization | : Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | : Based on available data, the classification criteria are not met. |
| Carcinogenicity | : Based on available data, the classification criteria are not met. |

2-Butoxyethanol (111-76-2)

| | |
|--|--|
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | : May damage fertility or the unborn child. |
| Specific target organ toxicity (single exposure) | : Based on available data, the classification criteria are not met. |
| Specific target organ toxicity (repeated exposure) | : Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : Harmful if inhaled. Causes severe damage to the respiratory tract. |
| Symptoms/injuries after skin contact | : Causes severe skin burns. Symptoms may include redness, pain, blisters. |
| Symptoms/injuries after eye contact | : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. May cause stomach distress, nausea or vomiting. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-------------------|---|
| Ecology - general | : May cause long-term adverse effects in the aquatic environment. |
|-------------------|---|

12.2. Persistence and degradability

200264

| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

12.3. Bioaccumulative potential

200264

| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--------------------------------|---|
| Waste disposal recommendations | : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. |
|--------------------------------|---|

SECTION 14: Transport information

In accordance with Transportation of Dangerous Goods

Transportation of Dangerous Goods

| | |
|--|--|
| UN-No. (TDG) | : UN1760 |
| Proper Shipping Name (Transportation of Dangerous Goods) | : CORROSIVE LIQUID, N.O.S. (Tribasic sodium phosphate dodecahydrate, Sodium hydroxide) |
| TDG Primary Hazard Classes | : 8 |
| Hazard labels (TDG) | : |



| | |
|---------------|------|
| Packing group | : II |
|---------------|------|

SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories, except for:

| | |
|---|---------------------|
| Tribasic sodium phosphate dodecahydrate | (CAS No) 10101-89-0 |
| Disodium tetraborate pentahydrate | (CAS No) 12179-04-3 |

SECTION 16: Other information

| | |
|---------------|--------------|
| Date of issue | : 09/09/2016 |
| Revision date | : 09/09/2016 |

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Indication of changes : None.

Other information : None.

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