

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/23/2016 Reviewed on 05/23/2016

1 Identification

- · Product Identifier
- · Trade name: P20 Plus
- Relevant identified uses of the substance or mixture and uses advised against:

No further relevant information available.

- · Product Description Aqueous Alkaline Solution
- Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier:

Clayton Chemical

2630 Homestead Pl.

Rancho Dominguez, CA 90220 Telephone: (310) 538 9530

· Emergency telephone number:

Medical Emergency Telephone : CHEMTREC® 1 (800) 424 9300

Transportation Emergency Telephone : CHEMTREC® 1 (800) 424 9300

2 Hazard(s) Identification

· Classification of the substance or mixture:



GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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

Aquatic Acute 2 H401 Toxic to aquatic life.

- · Label elements:
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:





GHS07 GHS08

- · Signal word: Warning
- · Hazard-determining components of labeling:

Hydroquinone

· Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H401 Toxic to aquatic life.



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· Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves.

P280 Wear eye protection / face protection.
P273 Avoid release to the environment.
P264 Wash thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P363 Wash contaminated clothing before reuse.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Classification system:

NFPA ratings (scale 0 - 4)



Health = 2 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

| · Non-hazardous components: | | |
|-----------------------------|--|--------|
| 7732-18-5 W | ater, distilled water, deionized water | 70-90% |
| 7757-83-7 Sc | odium sulfite | 10-15% |

- · Chemical characterization: Mixtures
- · **Description:** Mixture of substances listed below with non-hazardous additions.

| · Dangerous Components: | | | | |
|-------------------------|--|-----------|--|--|
| CAS: 584-08-7 | Potassium Carbonate | 10-15% | | |
| RTECS: TS 7750000 | ♦ Acute Tox. 4, H302 | | | |
| CAS: 123-31-9 | Hydroquinone | ≤ 2.5% | | |
| RTECS: MX 3500000 | ♦ Muta. 2, H341; ♦ Eye Dam. 1, H318; ♦ Aquatic Acute 1, H400; ♦ Acute Tox. 4, H302; Skin Sens. 1, H317 | | | |
| | (Contd | on nogo 2 | | |

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| CAS: 1310-73-2 | Sodium Hydroxide | ≤ 2.5% |
|-------------------|-----------------------|--------|
| | ♦ Skin Corr. 1A, H314 | |
| CAS: 60-00-4 | Edetic acid | ≤ 2.5% |
| RTECS: AH 4375000 | ◆ Eye Irrit. 2A, H319 | |

4 First-Aid Measures

- · Description of first aid measures:
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash skin with soap and plenty of water for at least 15 minutes.

Remove contaminated clothing and wash before reuse.

Get medical attention if symptoms occur.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Drink milk or water. Induce vomiting. Obtain immediate medical attention.
- Information for 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: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture:

When heated to decomposition, emission of toxic fumes of SO₂ are possible.

- · Advice for firefighters:
- Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

· Additional information: Evacuate personnel to a safe area. Keep personnel away from and upwind of fire.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not allow to enter sewers/surface or ground water.
- · Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

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:

Avoid contact with skin, eyes and clothing

Ensure good ventilation/exhaustion at the workplace.

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- 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:

Store in a cool, dry place.

Store in a well ventilated place.

- Information about storage in one common storage facility: See Section 10 (Incompatible materials)
- · Further information about storage conditions: Keep receptacle tightly sealed.
- 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 section 7.
- · Control parameters:
- Components with occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

123-31-9 Hydroquinone

PEL Long-term value: 2 mg/m³

REL Ceiling limit value: 2* mg/m³

*15-min

TLV Long-term value: 1 mg/m³

DSEN

1310-73-2 Sodium Hydroxide

PEL Long-term value: 2 mg/m³
REL Ceiling limit value: 2 mg/m³

TLV | Ceiling limit value: 2 mg/m³

· Additional information: The lists that were valid during the creation of this SDS were used as basis.

· Exposure controls:

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:



NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

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· Protection of hands:



Protective gloves

· Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· Eye protection:



Tightly sealed goggles

· Body protection:



Apron

9 Physical and Chemical Properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:
Color:
Clear
Odor:
Odor threshold:
Liquid
Clear
Odorless
Not determined.

· pH-value @ 20 °C (68 °F): 10.5

· Change in condition

Melting point/Melting range: Not determined.
Boiling point/Boiling range: 100 °C (212 °F)

· Flash point: None

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature:

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

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

· Explosion limits:

Lower: Not determined. Upper: Not determined.

· Vapor pressure @ 20 °C (68 °F): 23 hPa (17 mm Hg)

• **Density @ 20 °C (68 °F):** 1.26 g/cm³ (10.515 lbs/gal)

• Relative density: Not determined. • Evaporation rate: Not determined.

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· Solubility in / Miscibility with:

Water: Soluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

Solvent content:

 Organic solvents:
 0.0 %

 Water:
 76.7 %

 Solids content:
 21.9 %

· Other information: No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:

When heated to decomposition, emission of toxic fumes of SO2 are possible.

- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: Strong acids, oxidizers.
- · Hazardous decomposition products: Oxides of sulfur, carbon dioxide, carbon monoxide.

11 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:

| - I D/I C50 | values th | at are rele | vant for c | lassification. |
|-------------|-----------|-------------|------------|----------------|

584-08-7 Potassium Carbonate

Oral LD50 1870 mg/kg (rat)

123-31-9 Hydroquinone

Oral LD50 320 mg/kg (rat)

1310-73-2 Sodium Hydroxide

Oral LD50 2000 mg/kg (rat)

- · Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- · On the eye:

Irritating effect.

Causes serious eye irritation.

- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

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

Irritant

· Carcinogenic categories:

IARC (International Agency for Research on Cancer):

123-31-9 Hydroquinone

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· NTP (National Toxicology Program):

None of the ingredients are listed.

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

None of the ingredients are listed.

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity: No further relevant information available.
- 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:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- 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:

Observe all federal, state and local environmental regulations when disposing of this material.

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

- · Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.

14 Transport Information

· UN-Number:

· **DOT, ADR, IMDG, IATA** UN3267

· UN proper shipping name:

· **DOT** Corrosive liquid, basic, organic, n.o.s. (Sodium Hydroxide)

· ADR UN3267 Corrosive liquid, basic, organic, n.o.s. (Sodium

Hydroxide)

· IMDG, IATA CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Sodium

Hydroxide)

· Transport hazard class(es):

· DOT



· Class: 8 Corrosive substances

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8 · Label:

· ADR



· Class: 8 (C7) Corrosive substances

· Label:

· IMDG, IATA



8 Corrosive substances · Class:

· Label: 8

· Packing group:

· DOT, ADR, IMDG, IATA Ш

· Environmental hazards: Not applicable.

· Special precautions for user: Warning: Corrosive substances

Danger code (Kemler): · EMS Number: F-A.S-B Segregation groups: Alkalis

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations: On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

· ADR

Excepted quantities (EQ): Code: E1

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· IMDG

5L · Limited quantities (LQ): Excepted quantities (EQ): Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN3267, Corrosive liquid, basic, organic, n.o.s. (Sodium

Hydroxide), 8, III

Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- · SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

123-31-9 Hydroguinone

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| · Section 313 (Speci | toxic chemical listings): | |
|-------------------------|---------------------------|--|
| 123-31-9 Hydroquir | е | |
| · TSCA (Toxic Subs | ces Control Act): | |
| All ingredients are lis | d or exempt from listing. | |
| · California Proposit | ı 65: | |

· Chemicals known to cause cancer: None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

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):

123-31-9 Hydroguinone

A3

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

None of the ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:





GHS07 GHS08

· Signal word: Warning

Hazard-determining components of labeling:

Hvdroquinone

· Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H401 Toxic to aquatic life.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves.

Wear eye protection / face protection. P280 Avoid release to the environment. P273 P264 Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace. P272

Obtain special instructions before use. P201



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P202 Do not handle until all safety precautions have been read and understood.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P363 Wash contaminated clothing before reuse.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 05/23/2016 / 4

· Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

* Data compared to the previous version altered.

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