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Section 1: Identification

1.1 Product identification

Product identifier : Mixture

Product name : PROMASTER(Z) C-6p [Colorant]

Product code : Not available

Recommended uses : Cosmetics - Hair Coloring Product

Restrictions on uses : No information available

1.2 Identification of company

Manufacturer/Supplier name : Hoyu America Co.

Division

Address : 6265 Phyllis Drive Cypress, CA 90630 US

Telephone number : 714-230-3000
FAX number : 714-230-3060
E-mail : info@hoyu-usa.com
1.3 Emergency telephone number : 1-800-848-4980
1.4 Reference number : 20-0092(US)

Section 2: Hazard Identification

2.1 Classification of the substance or mixture

2.1.1 Physico-Chemical hazard

Flammable Solids : Not classified

2.1.2 Health Hazard

Acute toxicity (Oral) Not classified Acute toxicity (Dermal) Not classified Acute toxicity (inhalation: dusts/mists) Not classified Skin corrosion/irritation Category 2 Serious eye damage/irritation Category 2 Respiratory sensitization Not classified Skin sensitization Category 1 Mutagenicity Not classified Reproductive toxicity Not classified Aspiration hazard Not classified Specific target organ toxicity (single exposure) Category 1 Specific target organ toxicity (repeated exposure) Category 1

2.1.3 Environmental Hazard

Acute environmental toxicity : Not classified

- * For those not listed on "2.1 Classification of the Substance or Mixture" are either "Not Applicable" or "Classification not Possible."
- * Hazard identification is made according to the 2012 OSHA communication Standard (29 CFR 1910.1210) and GHS rev. 7.

2.2 Label Element

Hazard Pictograms :



Signal Word : Danger Hazard Statement : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eve irritation.

H319 Causes serious eye irritation.

H370 Causes damage to organs Central Nervous System.
 H371 May cause damage to organs Nervous System.
 H372 Causes damage to organs Systematic Toxicity,

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through prolonged or repeated exposure.

Precautionary Statement

General Precautions: P101 If medical advice is needed, have product container

or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

Preventions : P264 Wash face, hands and any exposed skin thoroughly

after handling.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P272 Contaminated work clothing should not be allowed

out of the workplace.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P270 Do not eat, drink or smoke when using this product.

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

P321 Specific treatment (see section 4 on this SDS).
P362+P364 Take off contaminated clothing and wash it before

reuse.

P305+P351+ IF IN EYES: Rinse cautiously with water for several

P338 minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P337+P317 If eye irritation persists: Get medical help.

P333+P317 If skin irritation or rash occurs: Get medical help. P308+P316 IF exposed or concerned: Get emergency medical

help immediately.

P319 Get medical help if you feel unwell.

Storage : P405 Store locked up.

Disposal : P501 Dispose of contents/container to an approved waste

disposal plant in accordance with

local/regional/national/international regulations.

2.3 Other hazards

2.6% of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

Harmful to aquatic life with long lasting effects.

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Use of alcoholic beverages may enhance toxic effects.

Section 3: Composition/Information on Ingredients

3.1 Substance :

	Chemical Name	CAS No.	Concentration (w/w %)
	Not applicable	Not applicable	Not applicable
\mathbf{a}	M. A		

3.2 Mixtures :

Chemical Name	CAS No.	Concentration (w/w %)
PEG-32	25322-68-3	5 - 10
CETETH-30	68439-49-6	5 - 10
STEARETH-2	9005-00-9	1 - 5
AMMONIUM CHLORIDE	12125-02-9	1 - 5
BEHENTRIMONIUM CHLORIDE	68607-24-9	1 - 5
LANOLIN	8006-54-0	1 - 5
PARAFFIN	8002-74-2	1 - 5
TOLUENE-2,5-DIAMINE SULFATE	6369-59-1	1 - 5
AMMONIUM HYDROXIDE	1336-21-6	0.1 - 1
MINERAL OIL	8042-47-5	0.1 - 1

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p-AMINOPHENOL	123-30-8	0.1 - 1
	71750-79-3,	
AMODIMETHICONE	106842-44-8,	0.1 - 1
	68554-54-1	
ASCORBIC ACID	50-81-7	0.1 - 1
ISOPROPYL ALCOHOL	67-63-0	0.1 - 1
RESORCINOL	108-46-3	0.1 - 1
POLYQUATERNIUM-4	92183-41-0	0.1 - 1
4-NITRO-o-PHENYLENEDIAMINE	99-56-9	0.1 - 1
FRAGRANCE	N.A.	0.1 - 1
4-AMINO-2-HYDROXYTOLUENE	2835-95-2	0.1 - 1
SODIUM SULFITE	7757-83-7	0.1 - 1

Section 4: First-aid Measures

4.1 Description of First Aid Measures

Inhalation : Remove to fresh air. Get medical attention immediately if symptoms occur.

Skin Contact : Wash off immediately with soap and plenty of water for at least 15 minutes. May

cause an allergic skin reaction. In the case of skin irritation or allergic reactions

see a physician.

Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Seek immediate medical

attention/advice.

Ingestion : Rinse mouth immediately and drink plenty of water. Never give anything by

mouth to an unconscious person. DO NOT induce vomiting. Call a physician.

4.2 Most Important Symptoms/Effects

Acute : Burning sensation, itching, rashes, and/or hives. Delayed : Burning sensation, itching, rashes, and/or hives.

4.3 Protection for Person who gives First-Aids

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

4.4 Indication of Immediate Medical Attention and Special Treatment Needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. May cause sensitization of susceptible persons. Treat symptomatically.

Section 5: Fire-Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Inappropriate Extinguish Media : No informa

5.2 Specific Hazards Arising from : 7

the Chemicals

: No information available.

: Thermal decomposition can lead to release of irritating gases and

vapors.

5.3 Special Extinguishing Method : Sensitivity to mechanical impact: No

Sensitivity to static discharge: No

5.4 Special Protective Actions for

Fire-fighter

As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Protective Equipment : Refer to protective measures listed in Section 7 and 8. Prevent

further leakage or spillage if safe to do so.

Appropriate Procedure : Avoid contact with skin, eyes or clothing. Ensure adequate

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ventilation. Use personal protective equipment as required.

Emergency Procedure : Evacuate personnel to safe areas.

6.2 Environmental Precautions : Refer to protective measures listed in Section 7 and 8. Prevent

further leakage or spillage if safe to do so.

6.3 Methods and Materials for Containment and Cleaning up

For Containment : Prevent further leakage or spillage if safe to do so.

For Cleaning up : Soak up with inert absorbent material. Pick up and transfer to

properly labeled containers.

Other Information : Not available

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

General Precautions : Use personal protection equipment. Handle in accordance with

good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash

before reuse.

General Hygiene : Do not eat, drink or smoke when using this product.

7.2 Conditions for Safe Storage

General Information : Keep containers tightly closed in a dry, cool and well-ventilated

place. Store locked up. Keep out of the reach of children.

Storage Conditions : Do not store with strong acids, strong oxidizing agents and/or

strong bases.

Other Information : Not available

Section 8: Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

Chemical Name	ACGIH TLV	NIOSH IDLH	NIOSH REL	OSHA PEL
AMMONIUM			TWA: 10 mg/m^3	_
CHLORIDE	_		$ST 20 \text{ mg/m}^3$	-
			TWA: 400 ppm	
ISOPROPYL	TWA: 200 ppm,	2000 ppm	$(980 \text{ mg/m}^3),$	TWA: 400 ppm
ALCOHOL	ST: 400 ppm	[10%LEL]	ST: 500 ppm	(980 mg/m^3)
			(1225 mg/m^3)	
PARAFFIN	-	-	TWA: 2 mg/m^3	-
			TWA: 10 ppm	
RESORCINOL	_	_	$(45 \text{ mg/m}^3),$	_
RESORCINOL	_	-	ST: 20 ppm	-
			(90 mg/m^3)	
MINERAL OIL	TWA: 5 mg/m³ (IHL; excluding metal working fluids, pure highly and severely refined) (For poorly and mildly refined: exposure by all routes should be carefully controlled to levels as low as possible.)	2500 mg/m ³	TWA: 5 mg/m ³ , ST 10 mg/m ³	TWA: 5 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold limit value. OSHA PEL: Occupational safety and Health Administration – Permissible Exposure Limits Immediately

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Dangerous to Life or Health.

NIOSH IDLH: The National Institute for Occupational Safety and Health - Immediately Dangerous to

Life or Health Concentrations.

8.2 Engineering Controls : Showers

> Eyewash station Ventilation system

8.3 Individual Protection Measures

Eve/Face Protection Tight sealing safety goggles.

Wear protective gloves and protective clothing. Long sleeved Skin Protection

clothing. Impervious gloves.

No protective equipment is needed under normal use conditions. If Respiratory Protection

exposure limits are exceeded or irritation is experienced,

ventilation and evacuation may be required.

Thermal Hazard Not available

Handle in accordance with good industrial hygiene and safety Other Requirements

> practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately

after handling the products.

Section 9: Physical and Chemical Properties

Physical State Solid (Cream)

Yellow to yellowish brown Color Odor Slight characteristic odor

рН 8.3 - 9.3pH meter (1% ag. sol.)

Melting/Freezing Point No data available Not known Initial Boiling Point and Boiling Range No data available Not known Flash Point No data available Not known **Evaporation Rate** No data available Not known Flammability (Solid, Gas) Not meet a criteria under Not known

burning rate test by judging

from the product composition

No data available Upper/lower Flammability or Explosive Not known

Limits

Vapor Pressure No data available Not known No data available Density Not known Relative Vapor Density No data available Not known Solubility Completely soluble in water Not known Partition Coefficient: n-octanol/water No data available Not known No data available Autoignition temperature Not known Decomposition temperature No data available Not known

Viscosity 15000 - 35000 mPa·s Type B viscometer

(No. 4 rotor/12 rpm/1 min)

Kinetic viscosity Not known No data available Particle characteristics No data available Not known No data available Explosive property Not known

Oxidizing property No

VOC contents (%) No data available Other Information No information available

Section 10: Stability and Reactivity

Reactivity No data available

Chemical Stability Stable under recommended storage conditions.

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Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid None known

Oxidative agent and acid materials. Incompatible Materials

Hazardous Decomposition Products Carbon oxides, ammonia, and/or nitrogen oxide.

Section 11: Toxicological Information

Information on Toxicological Effects

Acute Toxicity

AMMONIUM HYDROXIDE LD50(oral, rat) = 350 mg/kgLD50(oral, rat) = 671 mg/kgp-AMINOPHENOL LD50(oral, rat) = 301 mg/kgRESORCINOL LD50(oral, rat) = 681 mg/kg4-NITRO-o-PHENYLENEDIAMI

CETETH-30 LD50(oral, rat) = 1260 mg/kgLD50(oral, rat) = 25000 mg/kgSTEARETH-2 AMMONIUM CHLORIDE LD50(oral, rat) = 1410 mg/kgBEHENTRIMONIUM LD50(oral, rat) = 1000 mg/kg

CHLORIDE

TOLUENE-2,5-DIAMINE

SULFATE

LD50(oral, rat) = 98 mg/kg

Skin Corrosion/Irritation

Corrosive (rabbit, 20 % aq. Sol.) (SIDS 2008). AMMONIUM HYDROXIDE

The skin irritation test using rabbits was reported that mild p-AMINOPHENOL edema was induced 24 hours after application and recovered within 72 hours (primary stimulation score 0.2 (maximum

value 8)) (SIAP 2010, HSDB Access on May 2017).

AMODIMETHICONE Causes skin irritation.

In the skin irritation test in which this substance was applied to RESORCINOL

> rabbits for 24 hours, there were reports of skin irritation scores 4.4 and 5.4, and scars and necrosis of the necrotic part were observed 14 days after application (SIDS (2009), DFGOT vol.

20 (2003), CICAD 71 (2006)).

In addition to reports that epidemiological investigations of 268 human subjects showed a direct relationship between the occurrence of dermatitis and this substance exposure (NTP TR 403 (1992), ACGIH (7 th, 2001)). Multiple dermatitis due to this substance exposure has been reported (SIDS (2009),

PATTY (6 th, 2012)).

4-NITRO-o-PHENYLENEDIAMI Irritant.

NE

CETETH-30 Moderate irritation (Draize, Rabbit, RTECS).

BEHENTRIMONIUM Corrosive to skin. Low concentration solution (1%) causes skin

CHLORIDE irritation, and high concentration solutions ($\ge 10\%$) may cause

inflammation, rash, etc.

FRAGRANCE No information available

Serious Eye Damage/Irritation

AMMONIUM HYDROXIDE Corrosive (rabbit, 28.5 % aq. Sol.) (HSDB (Access on June

2014)).

p-AMINOPHENOL There is a report that it is irritating to human eyes (HSDB)

> Access on May 2017) and a report that mild irritancy was seen in eye irritation test using rabbits (SIAP 2010, HSDB Access

on May 2017)

Causes serious eve damage. AMODIMETHICONE

Mild to strong irritation (rabbit) (EHC, 1990, SIDS, 2002, ISOPROPYL ALCOHOL

PATTY 6th, 2012, and ECETOC TR48, 1998).

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RESORCINOL In the eye irritation test using rabbit, there are reports that

non-recovering conjunctivitis, iritis, corneal opacity occurred(SIDS (2009)). Also there were reports that

nonrecorescious ulcer has developed (ACGIH (7th, 2001)). In addition, the irritation score is reported as 39.9-56.3 and 105 (maximum value 110) (SIDS (2009), CICAD 71 (2006)). No specific information given on the SDS from manufacturer.

4-NITRO-o-PHENYLENEDIAMI

PEG-32

Mild irritant (rabbit), but recovered within 24 to 48 hrs.

CETETH-30 Moderate irritation (Draize, Rabbit, RTECS).

AMMONIUM CHLORIDE Mild irritant on rabbit (ACGIH (7th, 2001)), also moderate

irritation was observed 10 minutes, 1 hour, and 24 hours after application, but redness, edema, and/or corneal opacity were

recovered within 8 days.

Low concentration solution (0.1 - 1%) is strongly irritant to BEHENTRIMONIUM **CHLORIDE**

eyes, and high concentration solutions ($\ge 10\%$) may cause

severe burnings with turbidity or angiogenesis.

PARAFFIN Slightly or mild irritant (rabbit, IUCLID, 2000 and RTECS,

2008).

In the test using rabbits, "mild response to conjunctiva" was **TOLUENE-2,5-DIAMINE**

observed (HSDB, 2002). SULFATE FRAGRANCE No information available

Causes eye irritation. Slight irritation on rabbit eyes. SODIUM SULFITE 4-AMINO-2-HYDROXYTOLUEN Shown slight reaction on conjunctiva on rabbit eye (HSDB,

2016).

Respiratory or Skin Sensitization

There was a report causing bronchial asthma (HSDB (Access p-AMINOPHENOL

> on May 2017). It is stated that this substance is contained in hair dye and is a causative substance of contact dermatitis to barber and consumer (Contact Dermatitis 5th ed., 2011) and there are multiple case report on skin sensitization potential of

this substance (SCCS 2011).

There was a report that the positive rate was seen to be 30% or RESORCINOL

> more in skin sensitization test using guinea pig (OECD TG 406, GLP compliant) (SIDS (2009), DFGOT vol. 20 (2003)).

May cause sensitization by skin contact. 4-NITRO-o-PHENYLENEDIAMI

NE

FRAGRANCE

4-AMINO-2-HYDROXYTOLUEN

No information available

Positive in mice LLNA (NTP, 2006) and allergic exzema by

human patch test (HSDB, 2016).

Germ Cell Mutagenicity p-AMINOPHENOL

Negative results were reported by in vivo domestic lethal test

in rat and in vitro gene mutation test, but positive results are reported by in vivo micronucleus test in mouse, in vitro mouse lymphoma test and chromosome aberration test (Existing chemical toxicity database of Ministry of Health, Labor and Welfare access on May 2017, SIDS 2010, Patty 6th 2012, NTP

DB access on May 2017)

Carcinogenicity No information available

Reproductive Toxicity

p-AMINOPHENOL In a simple reproductive toxicity test by forced oral

> administration using rats, death of parental animals was seen (male 4/12 and female 2/12). Regression stop of sex cycle, extension of gestation periods, poor delivery rate and nursing

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behaviors were seen in parental rats that showed suppression on weight gain at a dose of 500 mg/kg/day. Its offsprings showed increased stillbirth, lower fertility rate and survival rate within first 4 days. (Existing chemical toxicity database of Ministry of Health, Labor and Welfare access on May 2017, SIDS 2010, SCCS 2011).

On the other hand, the developmental toxicity test administered a dose mixed feeds to a pregnant rats on 0 to 20th days, increase in fetal death after implantation at dose lower than the dose showing suppression of weight gain to the mother animals was seen, but fetus did not show increase in teratogenesis although it showed skeletal morphogenesis and undeveloped renal papilla due to growth retardation (SIDS 2010, Risk Assessment by Ministry of the Environment Vol. 5: Temporary Hazard Assessment Sheet 2006).

However, as a result of forced oral administrations during the organ formation periods of pregnant rat, the mother animal showed suppression of weight gain at does greater than 85 mg/kg/day and teratogenicity in fetus, such as skeletal malformations, asthma, hydrocephalus, at dose of 250 mg/kg/day (SCCS 2011). A test administered forcefully single oral dose to pregnant rats at 11th day of pregnancy showed abnormality in their tail at a dose showing the suppression of weight gain on mother animals (SIDS 2010, Risk Assessment by Ministry of the Environment Vol. 5: Temporary Hazard Assessment Sheet 2006). There was a report that pregnant hamsters administered showed no teratogenicity by oral administration but external malformation such as cerebral aneurysms and ocular or tail malformations were seen (SIDS 2010, Patty 6th, 2012, SCCS 2011, Risk Assessment by Ministry of the Environment Vol. 5: Temporary Hazard Assessment Sheet 2006).

ISOPROPYL ALCOHOL

Two generation test on rat by oral exposure showed decrease in copulation rate on parent and decrease in weight and increase in death rate (PATTY 6th, 2012 and SIDS (2002)).

STOT – Single Exposure 4-NITRO-o-PHENYLENEDIAMI

AMMONIUM CHLORIDE

AMMONIUM HYDROXIDE

May cause respiratory irritation.

Oral exposure of 1000 mg/kg bw on rat showed breathing difficulty, accidia, abnormal posture, and/or stagger symptom (SIDS, 2009).

There is known neurological effect due to oral and dermal exposure, which normally limited to blurred vision on topically applied region, but severe exposure causes increase in concentration of blood ammonia, attack, coma, nonspecific diffuse brain disorder, loss in muscle strength, decreased deep tendon reflex, loss of consciousness, and death (ATSDR, 2004). This substance has a respiratory irritation and causes severe irritation and pain on airway mucosa. Also, severe corrosive effects are known for mouth, throat and stomach by oral route (HSDB, 2014).

ISOPROPYL ALCOHOL

This substance showed systematic hazardous effect including the central nervous depression such as lethargy, coma and respiratory depression, irritation on the alimentary canal, effect on the circulatory system such as blood pressure, body

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PARAFFIN

RESORCINOL

temperature decrease, and abnormal cardiac rhythm (SIDS (2002), EHC 103 (1990)).

Wax fume is mild irritant on eyes, nose, and throat

(PATTY5th, 2001)

This substance has multiple human poisoning cases. After using ointment or cream (50% of this substance, 100 g) for the treatment of skin diseases, methemoglobinemia, cyanosis, convulsions due to loss of consciousness, tremor, convulsion, mydriasis, confusion, amnesia, disorientation were observed. In oral ingestion and percutaneous absorption poisoning cases of infants, burning sensation, convulsions, central nervous system disorder (dizziness, confusion, somnolence, disorientation, disorientation, memory loss, tremor), red blood cell change (methemoglobinemia, hemolytic anemia, hemoglobinuria, cyanosis), etc. were observed (ACGIH (7th, 2001), CICAD 71 (2006), IARC 71 (1999), PATTY (6th, 2012), DFGOT Vol. 20 (2003)). In experimental animals, in oral administration on rats salivation, hyperexcitability, tachypnea, ptosis, lethargy, abnormal gait, lying position, tremor, dyspnea, tremor, convulsion, sedation, tonic chronic convulsion, cyanosis, etc. were reported (SIDS (2009), ACGIH (7th, 2001), DFGOT Vol. 20 (2003), PATTY (6th, 2012), CICAD 71 (2006)).

STOT – Repeated Exposure AMMONIUM CHLORIDE

ISOPROPYL ALCOHOL

MINERAL OIL

p-AMINOPHENOL

Ingestion of ammonium chloride for 6 months showed hospitalization by acidosis (metabolic) due to exhaustion, air hunger, or accelerated respiration and disarray (SIDS 2009, ACGIH 2001). NOAEL = 206 mg/kg bw/day (cow, 112 days) (SIDS, 2009).

Vapor exposure of this substance on rat for 4 month showed decrease in number of leucocyte at 100 mg/m³, and pathologic effect on organs of respiration such as lung and respiratory tract, liver and spleen at 500 mg/m³ (EHC 103 (1990)). Effects on liver and mesenteric node by repeated oral exposure test using rat (IUCLID, 2000) and on lung due to aerosol exposure on rat (US HPVIS, 2011).

There is no clear report on humans.

In the 28-day repeated dose toxicity study by oral gavage using rats, brown urine, urinary sediment epithelial cells, absolute and relative weight values of kidney, basophilic tubule were seen at 100 mg/kg/day which is equivalent to 31 mg/kg/day for 90-day study, and lower red blood cells, hematocrit value and hemoglobin concentration, a high value of reticulocyte count, a liver weight increase, a white streak at the kidney corticosterum, spleen extramedullary hematopoiesis, and spleen hemosiderin pigment were seen at 500 mg/kg/day which is equivalent to 156 mg/kg/day for 90-day study (Existing chemical toxicity database of Ministry of Health, Labor and Welfare access on May 2017, SIDS 2010, Ministry of the Environment Risk Assessment Vol. 5: Temporary Hazard Assessment Sheet 2006).

In addition, in a 6-month repeated oral does toxicity study using rats, nephropathy was sheen at dose greater than 35 mg/kg/day and suppression of weight gain, decrease in number of red blood cells and concentration of hemoglobin (Ministry of the Environment Risk Assessment Volume 5: Temporary

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Hazard Assessment Sheet 2006, PATTY 6th 2012).

Aspiration Hazard

MINERAL OIL Inhalation of oil or liquid to lung may cause lipid or chemical

pneumonia and/or lipid granuloma.

Information on the Likely Routes of Exposure

Inhalation : Specific test data for the substance or mixture is not available.

May cause irritation of respiratory tract.

Eye contact : Specific test data for the substance or mixture is not available.

Expected to be an irritant based on components. Severely irritating to eyes. Cause serious eye damage. May cause burns.

May cause irreversible damage to eyes.

Skin contact : Specific test data for the substance or mixture is not available.

Ingestion may cause irritation based on components. Irritating to

skin. Prolonged contact may cause redness and irritation.

Ingestion : Specific test data for the substance or mixture is not available.

Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed (based on components).

Symptoms related to the Physical,

Chemical and Toxicological

Characteristics

Erythema (skin redness). May cause redness and tearing of the eyes. May cause blindness. Burning, itching, rushes and/or

hives.

Delayed, Immediate, and Chronic

Effects from Short and Long Term

Exposure

May cause sensitization of susceptible persons. May cause

sensitization by skin contact.

Carcinogenicity : The table below indicates whether each agency has listed any

ingredient as carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
ISOPROPYL ALCOHOL	A4	Group 3	-	-
RESORCINOL	A4	Group 3	-	-
4-NITRO-o-PHENYLENEDIAMINE	-	Group 3	-	-
MINERAL OIL	-	Group 3	-	-

ACGIH: A1 – Confirmed human carcinogen, A2 – Suspected human carcinogen, A3 – Confirmed animal carcinogen with unknown relevance to humans, A4 – Not classifiable as a human carcinogen, A5 – Not suspected as a human carcinogen

IARC: International Agency for Research and Cancer (Group 1 – Carcinogenic to humans, Group 2A – Probably Carcinogenic to humans, Group 2B – Possibly carcinogenic to humans, Group 3 – Not classifiable as to carcinogenicity in humans, Group 4 – Probably not carcinogenic to humans)

NTP: National Toxicology Program (NA = none assigned, Known = Known to be a human carcinogen,

RAHC = Reasonably anticipated to be a human carcinogen)

Other Information : No information available.

Section 12: Ecological Information

Toxicity on Aquatic Organisms

AMMONIUM CHLORIDE LC50 (Lepomis macrochirus, 96 hrs.) = 74.2 mg/L (ECETOC

TR91, 2003)

BEHENTRIMONIUM CHLORIDE EC50 (Daphnia magna, 48 hrs.) = 0.16 mg/kg

AMMONIUM HYDROXIDE LC50 (Mysidopsis bahia, 96 hrs.) = 2.81 - 98.9 mg total NH₃/L

(SIDS, 2007)

p-AMINOPHENOL EC50 (Pseudokirchneriella subcapitata, 72 hrs.) = 0.1 mg/L

NOEC (Pseudokirchneriella subcapitata, 72 hrs) = 0.025 mg/L

RESORCINOL EC50 (Daphnia magna, 48 hrs.) = 1.28 mg/L

POLYQUATERNIUM-4 No information available

FRAGRANCE No specific information given on the SDS from manufacturer.

Toxicity on Terrestrial Organisms : No information available.

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Persistence and Degradability

BEHENTRIMONIUM CHLORIDE BOD=0%

MINERAL OIL Persistent (IUCLID, 2000)

p-AMINOPHENOL BOD = 6 %RESORCINOL BOD = 66.7%

No information available POLYQUATERNIUM-4

Bioaccumulative Potential

BEHENTRIMONIUM CHLORIDE Low bioaccumulation

Log Pow > 6 (IUCLID, 2000) MINERAL OIL

BCF = 46p-AMINOPHENOL RESORCINOL log Kow = 0.8

No information available POLYQUATERNIUM-4 No information available. Mobility in Soil

Other Adverse Effects No information available.

Section 13: Disposal Considerations

Product/Packaging Disposal : This material, as supplied, is not a hazardous waste

> according to Federal regulation (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

Waste Treatment-Relevant Information Sewage Disposal-Relevant Information

No information available.

Other Disposal Recommendation Dispose of contents/containers in accordance with local

regulation (refer to Section 15).

No information available.

Section 14: Transport Information

CCLIOII	cetion 14. Transport information						
		DOT/TDG	IATA/ICAO	IMDG/IMO			
UN	Number						
UN	Proper Shipping Name	Not Doguloted	Not Doguloted	Not Dogulated			
Tra	nsport Hazard Classes	Not Regulated	Not Regulated	Not Regulated			
Pac	king Group						

DOT: US Department of Transportation

TDG: UN model regulation of Transport of Dangerous Goods

IATA/ICAO: International Air Transport Association/International Civil Aviation Organization IMDG/IMO: International Maritime Dangerous Goods/International Maritime Organization

Environmental Hazards No information available. Special Precautions for User No information available. Transport in Bulk According to ANNEX : No information available.

II of MARPOL 73/78 and IBC Code

Section 15: Regulatory Information

Safety, Health, and Environmental Regulations Specific for the Product

International chemical inventories

Toxic substances control act (TSCA) : All components of this product are either listed or are

exempt on the TSCA inventory.

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Domestic Substance list (DSL)

US Federal Regulation

Clean Air Act (CAA)

Title III of the Superfund Amendments and Reauthorization act of 1986

(SARA 313)

: Substances comply or are exempt.

Section 313 of Title III of the Superfund Amendments and Reauthorization act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the act and title 40 of the Code of Federal

Regulations (CFR), Part 372.

- O	- /)
Chemical Name	SARA 313 – Threshold values (%)
AMMONIUM CHLORIDE	1.0 as ammonia
AMMONIUM HYDROXIDE	1.0 as ammonia
ISOPROPYL ALCOHOL	1.0

This product does not contain substance which is regulated

as pollutant pursuant to the Clean Air Act (40 CFR 50 - 99).

Comprehensive Environmental

This material, as supplied, contains one or more substances regulated as hazardous substance under the Comprehensive

Response Compensation and Liability Act (CERCLA)

regulated as hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (40 CFR 302).

Hazardous Substance	Statutory Code*	RCRA Waste No.	Final RQ Pounds
AMMONIUM CHLORIDE	1	-	5000 lb (2270 kg)
AMMONIUM HYDROXIDE	1	-	1000 lb (454 kg)
RESORCINOL	1, 4	U201	5000 lb (2270 kg)

^{*} According to 40 CFR 302, The "Statutory Code" column indicates the statutory source for designating each substance as a CERCLA hazardous substance:

US State Regulations

California Hazardous Waste Code : 135 (unspecified aqueous solution)

This product contains one or more substances that are listed with the state of California as hazardous waste.

Chemical Name	California Hazardous Waste Code
AMMONIUM HYDROXIDE	X, C
ISOPROPYL ALCOHOL	X, I

California Hazardous Waste Code: X – Toxic, C – Corrosive, I – Ignitable, R - reactive

California Proposition 65 : This product does not contain any Proposition 65 chemicals.

US State Right-to-Know Regulations

35 Suite Right to Rhow Regulations .					
Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
AMMONIUM CHLORIDE	X	X	X	X	X
LANOLIN	-	-	X	X	-
PARAFFIN	X	X	X	X	-
AMMONIUM HYDROXIDE	X	X	X	-	X
MINERAL OIL	X	X	X	X	-
ISOPROPYL ALCOHOL	X	X	X	X	-
RESORCINOL	X	X	X	X	X

[&]quot;1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act,

[&]quot;2" indicates that the source is section 307(a) of the Clean Water Act,

[&]quot;3" indicates that the source is section 112 of the Clean Air Act, and

[&]quot;4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA).

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Section 16: Other Information

NFPA (National Fire Protection	: Health hazard		2
Association Code)	Flammability l	hazard	0
	Instability haza	ard	0
	Special hazard	ls	-
HMIS (Hazardous Materials	: Health		2
Identification System)	Flammability		0
-	Physical hazar	·d	0
	Personal protect	ction	X

Reference

- Globally Harmonized System of Classification and Labeling of Chemicals Revision 5, 2013
- 2. National Institute of Technology and Evaluation (http://www.nite.go.jp/en/index.html)
- 3. SDS provided from raw material manufactures
- 4. United States Code (http://uscode.house.gov/browse.xhtml)
 - a) Title 21 Food and Drugs Chapter 9 Federal Food, Drug, and Cosmetic Act
 - b) Title 33 Navigation and Navigable Waters Chapter 26 Water Pollution Prevention and Control
 - c) Title 42 The Public Health and Welfare Chapter 85 Air Pollution Prevention and Control
 - d) Title 42 The Public Health and Welfare Chapter 103—Comprehensive Environmental Response, Compensation, and Liability
- 5. Code of Federal Regulation (https://www.gpo.gov/)
 - a) 21 CFR parts 700 799 Cosmetics
 - b) 40 CFR Protection of Environment
- 6. US Right-to-Know Regulation
 - New Jersey administrative code Title 8 Health Chapter 59 Work and community right to know act rules Appendix A and B
 - b) New Jersey Register Volume 42, Issue 15, 42 N.J.R. 1709(a), August 2, 2010
 - c) Code of Massachusetts Regulations 105 CMR 670.000 Right to know
 - d) The Pennsylvania Code Title 34 Labor and Industry Chapter 323 Hazardous Substance List
 - e) State of Rhode Island General Laws Chapter 28-21 Hazardous Substances Right-to-Know Act
 - f) Rhode Island Hazardous Substance List (http://www.dlt.ri.gov/occusafe/pdfs/HazardousABC.pdf)
 - g) Illinois Chemical Safety Act (430 ILCS 45)
 - h) Hazardous Materials Emergency Act (430 ILCS 50)
 - i) Illinois Emergency Planning and Community Right to Know Act (430 ILCS 100)
- 7. Domestic Substance List (http://www.ec.gc.ca/LCPE-CEPA/default.asp?lang=En&n=5F213FA8-1)
- 8. TSCA Chemical Substance Inventory (https://www.epa.gov/tsca-inventory)
- 9. International Agency for Research on Cancer (http://www.iarc.fr/)
- 10. American Conference of Governmental Industrial Hygienists (http://www.acgih.org/)
- 11. US Environmental Protection Agency (https://www3.epa.gov/)
- 12. US Department of Labor, Occupational Safety and Health Administration (https://www.osha.gov/)
- 13. The National Institute for Occupational Safety and Health (http://www.cdc.gov/niosh/about/default.html)
- 14. US Department of Health and Human Services, National Toxicology Program (https://ntp.niehs.nih.gov/)
- 15. US Department of Transportation (https://www.transportation.gov/)
- 16. International Air Transport Association (http://www.iata.org/Pages/default.aspx)
- 17. International Civil Aviation Organization (http://www.icao.int/Pages/default.aspx
- 18. International Maritime Organization
 - (http://www.imo.org/en/Publications/IMDGCode/Pages/Default.aspx)
- 19. California Environmental Protection Agency (http://oehha.ca.gov/)
- 20. National Fire Protection Association (http://www.nfpa.org/)

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a

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warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.