**Section 1: Identification** 

Safety Data Sheet

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1.1 Product identification		
Product identifier	:	Mixture
Product name	:	PROMASTER(Z) C-6/5 [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	:	20-0041(US)
Section 2. Hagand Identification		
Section 2: Hazard Identification		
2.1 Classification of the substance o	r mi	xture
2.1.1 Physico-Chemical hazard		
Flammable Solids		:
2.1.2 Health Hazard		

Not classified 2.1.2 Health Hazard Acute toxicity (Oral) Not classified : Not classified Acute toxicity (Dermal) Acute toxicity (inhalation: dusts/mists) Not classified Skin corrosion/irritation Category 2 Serious eye damage/irritation Category 1 Respiratory sensitization Not classified Skin sensitization Category 1 Not classified Mutagenicity Reproductive toxicity Not classified Aspiration hazard Not classified Specific target organ toxicity (single exposure) Category 1 Not classified Specific target organ toxicity (repeated exposure)

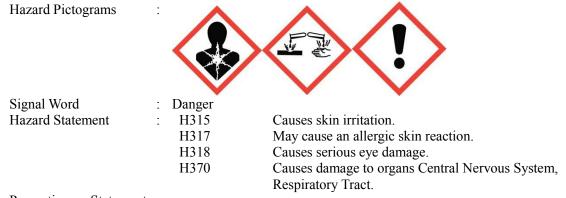
### 2.1.3 Environmental Hazard Acute environmental toxicity

: 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



Precautionary Statement

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General Precautions	:	P101	If medical advice is needed, have product container
		<b>D100</b>	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.
		P260	Do not breathe dust/fume/gas/mist/vapors/spray.
		P272	Contaminated work clothing should not be allowed out of the workplace.
		P270	Do not eat, drink or smoke when using this product.
Responses	:	P302+P352	IF ON SKIN: Wash with plenty of water.
responses	•	P321	Specific treatment (see section 4 on this SDS).
		P362+P364	Take off contaminated clothing and wash it before
			reuse.
		P305+P354+	IF IN EYES: Immediately rinse with water for
		P338	several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing.
		P317	Get medical help.
		P333+P317	If skin irritation or rash occurs: Get medical help.
		P308+P316	IF exposed or concerned: Get emergency medical
		1500 1510	help immediately.
Storage		P405	Store locked up.
Disposal	•	P501	Dispose of contents/container to an approved waste
2 lop com	•		dispose of contents container to an approved water disposal plant in accordance with
			local/regional/national/international regulations.
			ioeui, iegionui, nutionui, 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
3.2 Mixtures :		
Chemical Name	CAS No.	Concentration (w/w %)
PEG-32	25322-68-3	5 - 10
CETETH-30	68439-49-6	5 - 10
AMMONIUM HYDROXIDE	1336-21-6	1 - 5
STEARETH-2	9005-00-9	1 - 5
AMMONIUM BICARBONATE	1066-33-7	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	0.1 - 1
p-PHENYLENEDIAMINE	106-50-3	0.1 - 1
MINERAL OIL	8042-47-5	0.1 - 1
AMODIMETHICONE	71750-79-3, 106842-44-8,	0.1 - 1

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	68554-54-1	
ASCORBIC ACID	50-81-7	0.1 - 1
p-AMINOPHENOL	123-30-8	0.1 - 1
ISOPROPYL ALCOHOL	67-63-0	0.1 - 1
POLYQUATERNIUM-4	92183-41-0	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

4.1 Description of 1	list Alu 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 Pe	erson who gives First-Aids			
A state of the sta				

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 information available.
5.2 Specific Hazards Arising from	:	Thermal decomposition can lead to release of irritating gases and
the Chemicals		vapors.
5.3 Special Extinguishing Method	:	Sensitivity to mechanical impact: No
		Sensitivity to static discharge: No
5.4 Special Protective Actions for	:	As in any fire, wear self-contained breathing apparatus
Fire-fighter		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	
		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.	

	0 1
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 Handlin

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
ISOPROPYL ALCOHOL	TWA : 200 ppm, ST : 400 ppm	2000 ppm [10%LEL]	TWA: 400 ppm (980 mg/m <sup>3</sup> ), ST: 500 ppm (1225 mg/m <sup>3</sup> )	TWA: 400 ppm (980 mg/m <sup>3</sup> )
PARAFFIN	-	-	TWA : $2 \text{ mg/m}^3$	-
p-PHENYLENEDIA MINE	TWA: 0.1 mg/m <sup>3</sup>	25 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> [skin]	TWA: 0.1 mg/m <sup>3</sup> [skin]
MINERAL OIL	TWA : 5 mg/m <sup>3</sup> (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 <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> , ST 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold limit value. OSHA PEL: Occupational safety and Health Administration – Permissible Exposure Limits Immediately 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 Eye/Face Protection
  - ce Protection : Tight sealing safety goggles.

Skin Protection	Wear protective gloves and p lothing. Impervious gloves.	rotective clothing. Long sleeved
Respiratory Protection	No protective equipment is n exposure limits are exceeded rentilation and evacuation m	1
Thermal Hazard	Not available	
Other Requirements	practice. Avoid contact with s ploves and eye/face protection	bod industrial hygiene and safety skin, eyes or clothing. Wear suitable n. Do not eat, drink or smoke when ds before breaks and immediately

### **Section 9: Physical and Chemical Properties**

ection 9. I hysical and Chemical I toperti	CS		
Physical State	:	Solid (Cream)	
Color	:	Yellow to yellowish brown	
Odor	:	Characteristic odor	
pH	:	9.1 - 10.1	pH meter (1% aq. 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 burning rate test by judging from the product composition	Not known
Upper/lower Flammability or Explosive Limits	:	No data available	Not known
Vapor Pressure	:	No data available	Not known
Density	:	No data available	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
Autoignition temperature	:	No data available	Not known
Decomposition temperature	:	No data available	Not known
Viscosity	:	25000 - 45000 mPa•s	Type B viscometer (No. 4 rotor/12 rpm/1 min)
Kinetic viscosity	:	No data available	Not known
Particle characteristics	:	No data available	Not known
Explosive property	:	No data available	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.
Possibility of Hazardous Reactions	:	None under normal processing.
Conditions to Avoid	:	None known
Incompatible Materials	:	Oxidative agent and acid materials.
Hazardous Decomposition Products	:	Carbon oxides, ammonia, and/or nitrogen oxide.

:

# Section 11: Toxicological Information

Information on Toxicological Effects Acute Toxicity

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CETETH-30 AMMONIUM HYDROXIDE STEARETH-2 AMMONIUM BICARBONATE BEHENTRIMONIUM CHLORIDE TOLUENE-2,5-DIAMINE SULFATE p-PHENYLENEDIAMINE p-AMINOPHENOL Skin Corrosion/Irritation CETETH-30 AMMONIUM HYDROXIDE BEHENTRIMONIUM CHLORIDE p-PHENYLENEDIAMINE AMODIMETHICONE

p-AMINOPHENOL

FRAGRANCE Serious Eye Damage/Irritation PEG-32 CETETH-30 AMMONIUM HYDROXIDE

BEHENTRIMONIUM CHLORIDE

PARAFFIN

TOLUENE-2,5-DIAMINE SULFATE p-PHENYLENEDIAMINE AMODIMETHICONE p-AMINOPHENOL

ISOPROPYL ALCOHOL

FRAGRANCE 4-AMINO-2-HYDROXYTOLUEN E SODIUM SULFITE Respiratory or Skin Sensitization : p-PHENYLENEDIAMINE

LD50(oral, rat) = 1260 mg/kgLD50(oral, rat) = 350 mg/kgLD50(oral, rat) = 25000 mg/kgLD50(oral, rat) = 1576 mg/kgLD50(oral, rat) = 1000 mg/kgLD50(oral, rat) = 98 mg/kgLD50(oral, rat) = 80 mg/kgLC50(inhalation: dusts/mists, rat) = 0.92 mg/LLD50(oral, rat) = 671 mg/kgModerate irritation (Draize, Rabbit, RTECS). Corrosive (rabbit, 20 % aq. Sol.) (SIDS 2008). Corrosive to skin. Low concentration solution (1%) causes skin irritation, and high concentration solutions ( $\geq 10\%$ ) may cause inflammation, rash, etc. Slightly irritant at 2.5 % and moderately irritant at 10 - 50 % on rabbit and its PII was 1.4 – 3.4 (BUA 97, 1995). Causes skin irritation. The skin irritation test using rabbits was reported that mild 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). No information available Mild irritant (rabbit), but recovered within 24 to 48 hrs. Moderate irritation (Draize, Rabbit, RTECS). Corrosive (rabbit, 28.5 % aq. Sol.) (HSDB (Access on June 2014)). Low concentration solution (0.1 - 1%) is strongly irritant to eves, and high concentration solutions ( $\geq 10\%$ ) may cause severe burnings with turbidity or angiogenesis. Slightly or mild irritant (rabbit, IUCLID, 2000 and RTECS, 2008). In the test using rabbits, "mild response to conjunctiva" was observed (HSDB, 2002). Slightly irritant (Draize, rabbit) (BUA 97, 1995). Causes serious eye damage. 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) Mild to strong irritation (rabbit) (EHC, 1990, SIDS, 2002, PATTY 6th, 2012, and ECETOC TR48, 1998). No information available Shown slight reaction on conjunctiva on rabbit eye (HSDB, 2016). Causes eye irritation. Slight irritation on rabbit eyes. There are reports of workers who caused allergic asthma due to

There are reports of workers who caused allergic asthma due to occupational exposure, inflammation in the pharynx due to direct stimulation. Also there is a report of asthma occurring due to exposure 3 months - 10 years even with a small amount (ACGIH (2001)). There is another report that this substance

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p-AMINOPHENOL	was sensitized to the skin and the respiratory tract which may cause asthma (PATTY (5th, 2001)). Listed as sensitizing substance at Japan Society for Occupational Health. There was a report causing bronchial asthma (HSDB (Access 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).
FRAGRANCE 4-AMINO-2-HYDROXYTOLUEN E	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 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 tratogenesis although it showed skeletal morphogenesis and undeveloped renal papilla due to growth retardation (SIDS 2010, Risk 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 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 by Ministry of the Environment Vol. 5: Temporary Hazard Assessment by Ministry of the Environment Vol. 5: Temporary Hazard Assessment by Ministry of the Environment Vol. 5: Temporary Hazard Assessment by Ministry of the Environment Vol. 5: Temporary Hazard Assessment by Ministry of the Environment Vol. 5: Temporary Hazard Assessment Sheet 2006). There was a report that pregnant hamsters administered showed no

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teratogenicity by oral administration but external malformation

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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).
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)).
: 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
<ul> <li>severe irritation and pain on airway mucosa. Also, severe corrosive effects are known for mouth, throat and stomach by oral route (HSDB, 2014).</li> <li>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 temperature decrease, and abnormal cardiac rhythm (SIDS (2002), EHC 103 (1990)).</li> </ul>
Wax fume is mild irritant on eyes, nose, and throat (PATTY5th, 2001)
Ingestion of this substance on human showed breathing difficulty and edema on face, neck, tongue and throat, increase of CPK in blood, hypouresis, renal tubular degeneration and rhabdomyolysis. Then, subject caused acute kidney failure and death (DFGMAK-Doc.6, 1994).
: Vapor exposure of this substance on rat for 4 month showed decrease in number of leucocyte at 100 mg/m <sup>3</sup> , and pathologic effect on organs of respiration such as lung and respiratory
tract, liver and spleen at 500 mg/m <sup>3</sup> (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).

Exposure Carcinogenicity In addition, in a 6-month repeated oral does toxicity study

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	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
	Hazard Assessment Sheet 2006, PATTY 6th 2012).
p-PHENYLENEDIAMINE	The regular use of retail hair coloring product containing this
	substance on humans caused inflammation on liver and spleen
	and developed progressive neurological disorders for 11 weeks
	and final death of subject (ACGIH, 2001). Also, the regular use
	of retail hair coloring product containing this substance showed
	chronic kidney disorder, uremia, minimization of kidney and
	death of subject (DFGMAK-Doc.6, 1994). 90 days oral
	application test on rabbit at 10 mg/kg showed edema, swollen
	muscle fiber, etc on myocardium (ACGIH, 2001).
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 Expo	
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, :	Erythema (skin redness). May cause redness and tearing of the
Chemical and Toxicological	eyes. May cause blindness. Burning, itching, rushes and/or
Characteristics	hives.
Delayed, Immediate, and Chronic :	May cause sensitization of susceptible persons. May cause
Effects from Short and Long Torm	apprintigation by align contact

: May cause sensitization of susceptible persons. May cause Effects from Short and Long Term sensitization by skin contact.

:	The table below indicates whether each agency has listed any	
	ingredient as carcinogen.	

Chemical Name	ACGIH	IARC	NTP	OSHA
ISOPROPYL ALCOHOL	A4	Group 3	-	-
p-PHENYLENEDIAMINE	A4	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 HYDROXIDE	LC50 (Mysidopsis bahia, 96 hrs.) = $2.81 - 98.9$ mg total NH <sub>3</sub> /L (SIDS, 2007)
AMMONIUM BICARBONATE	LC50 (96 hrs., Oncorhynchus mykiss)=17300 µg/L
BEHENTRIMONIUM CHLORIDE	EC50 (Daphnia magna, 48 hrs.) = $0.16 \text{ mg/kg}$
p-PHENYLENEDIAMINE	LC50 (Oryzias latipes, 96 hrs.) = $0.066 \text{ mg/L}$
1	NOEC (Daphnia magna, 21 days) = 0.043 mg/L
p-AMINOPHENOL	EC50 (Pseudokirchneriella subcapitata, 72 hrs.) = $0.1 \text{ mg/L}$
p mini (or min (or	NOEC (Pseudokirchneriella subcapitata, 72 hrs) = $0.025 \text{ mg/L}$
POLYQUATERNIUM-4	No information available
FRAGRANCE	No specific information given on the SDS from manufacturer.
Toxicity on Terrestrial Organisms :	No information available.
Persistence and Degradability :	
BEHENTRIMONIUM CHLORIDE	BOD=0%
MINERAL OIL	Persistent (IUCLID, 2000)
p-PHENYLENEDIAMINE	BOD = 5%
p-AMINOPHENOL	BOD = 6 %
POLYQUATERNIUM-4	No information available
Bioaccumulative Potential :	
BEHENTRIMONIUM CHLORIDE	Low bioaccumulation
MINERAL OIL	Log Pow > 6 (IUCLID, 2000)
p-AMINOPHENOL	BCF = 46
POLYQUATERNIUM-4	No information available
Mobility in Soil	No information available.
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		No information available.
Sewage Disposal-Relevant Information		No information available.
Other Disposal Recommendation		Dispose of contents/containers in accordance with local regulation (refer to Section 15).

# **Section 14: Transport Information**

UN NumberUN Proper Shipping NameTransport Hazard ClassesNot RegulatedNot Regulated		DOT/TDG	IATA/ICAO	IMDG/IMO	
Transport Hazard Classes Not Regulated Not Regulated Not Regulated	umber				
Iransport Hazard Classes	oper Shipping Name	Not Dogulated	Not Dogulated	Not Domilated	
	ort Hazard Classes	Not Regulated	Not Regulated	Not Regulated	
Packing Group	g 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 Dange Environmental Hazards Special Precautions for User	:	No information av No information av	vailable. vailable.	zation
Transport in Bulk According to ANNEX II of MARPOL 73/78 and IBC Code	:	No information av	/allable.	
ection 15: Regulatory Information				
Safety, Health, and Environmental Regulation	ions	s Specific for the Pr	roduct	
International chemical inventories		4.11	0.1 1	1 1 . I
Toxic substances control act (TSCA)	:		f this product are eit	her listed or are
		exempt on the TS	2	
Domestic Substance list (DSL)	:	Substances compl	y or are exempt.	
US Federal Regulation				
Title III of the Superfund Amendments	:			nd Amendments and
and Reauthorization act of 1986				This product contains
(SARA 313)			micals which are sub	
			e act and title 40 of	the Code of Federal
		Regulations (CFR		1 (0/)
Chemical Name			RA 313 – Threshold	values (%)
AMMONIUM HYDROXIDE			as ammonia	
p-PHENYLENEDIAMINE		1.0		
ISOPROPYL ALCOHOL		1.0		
SARA 311/312 Hazard Category	:	Acute health haza		Yes
		Chronic health ha	zard	No
		Fire hazard	· · · · · · · · · · · · · · · · · · ·	No
		Sudden release of	pressure nazard	No
Clean Water A at (CWA)		Reactive hazard	aing the substances v	No
Clean Water Act (CWA)	•			which are regulated as
Closen Air A at $(C \land \land)$			t to the Clean Water	which are regulated as
Clean Air Act (CAA)	•		t to the Clean Air Ac	
Comprehensive Environmental			supplied, does not co	
Response Compensation and Liability	•			er the Comprehensive
Act (CERCLA)			esponse Compensation	
Act (CERCEA)		(40 CFR 302).	sponse compensatio	In and Liaonity Act
Hazardous Substance		Statutory Code*	RCRA Waste No.	Final RQ Pounds
AMMONIUM HYDROXIDE		1	-	1000 lb (454 kg)
AMMONIUM BICARBONATE		1	-	5000 lb(2270 kg)
p-PHENYLENEDIAMINE		3	-	5000 lb(2270 kg)
* According to 40 CFR 302, The "Statut	tory	Code" column ind	icates the statutory s	
each substance as a CERCLA hazardous			5	
"1" indicates that the statutory source is	sec	tion 311(b)(2) of th	e Clean Water Act,	

"1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act,

"2" indicates that the source is section 307(a) of the Clean Water Act,

"3" indicates that the source is section 112 of the Clean Air Act, and

"4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA). 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
p-PHENYLENEDIAMINE	X
ISOPROPYL ALCOHOL	X, I

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

#### California Proposition 65 US State Right to Know Regulations

This product does not contain any Proposition 65 chemicals.

US State Right-to-Know Regulat	ions :				
Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
AMMONIUM HYDROXIDE	Х	Х	Х	-	Х
AMMONIUM BICARBONATE	Х	Х	Х	-	Х
LANOLIN	-	-	Х	Х	-
PARAFFIN	Х	Х	Х	Х	-
MINERAL OIL	Х	Х	Х	Х	-
p-PHENYLENEDIAMINE	Х	Х	Х	X(skin)	Х
ISOPROPYL ALCOHOL	Х	Х	Х	Х	-

# **Section 16: Other Information**

NFPA (National Fire Protection	: Health hazard	3
Association Code)	Flammability hazard	0
	Instability hazard	0
	Special hazards	COR
HMIS (Hazardous Materials	: Health	3
Identification System)	Flammability	0
	Physical hazard	0
	Personal protection	Х

### Reference

- Globally Harmonized System of Classification and Labeling of Chemicals Revision 5, 2013 1.
- National Institute of Technology and Evaluation (http://www.nite.go.jp/en/index.html) 2.
- 3. SDS provided from raw material manufactures
- 4. United States Code (http://uscode.house.gov/browse.xhtml)
  - Title 21 Food and Drugs Chapter 9 Federal Food, Drug, and Cosmetic Act a)
  - b) Title 33 Navigation and Navigable Waters Chapter 26 Water Pollution Prevention and Control
  - Title 42 The Public Health and Welfare Chapter 85 Air Pollution Prevention and Control c)
  - Title 42 The Public Health and Welfare Chapter 103—Comprehensive Environmental Response, d) Compensation, and Liability
- Code of Federal Regulation (https://www.gpo.gov/) 5.
  - 21 CFR parts 700 799 Cosmetics a)
  - 40 CFR Protection of Environment b)
- US Right-to-Know Regulation 6.
  - New Jersey administrative code Title 8 Health Chapter 59 Work and community right to know act a) rules Appendix A and B
  - New Jersey Register Volume 42, Issue 15, 42 N.J.R. 1709(a), August 2, 2010 b)
  - Code of Massachusetts Regulations 105 CMR 670.000 Right to know c)
  - The Pennsylvania Code Title 34 Labor and Industry Chapter 323 Hazardous Substance List d)
  - State of Rhode Island General Laws Chapter 28-21 Hazardous Substances Right-to-Know Act e)
  - Rhode Island Hazardous Substance List f) (http://www.dlt.ri.gov/occusafe/pdfs/HazardousABC.pdf)
  - Illinois Chemical Safety Act (430 ILCS 45) g)
  - h) Hazardous Materials Emergency Act (430 ILCS 50)
  - Illinois Emergency Planning and Community Right to Know Act (430 ILCS 100) i)
- Domestic Substance List (http://www.ec.gc.ca/LCPE-CEPA/default.asp?lang=En&n=5F213FA8-1) 7.
- TSCA Chemical Substance Inventory (https://www.epa.gov/tsca-inventory) 8.
- 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/)

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- 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
- 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/)

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