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Section 1: Identification			
1.1 Product identification			
Product identifier	: Mixture		
Product name	: PROMASTER(Z) C-7/7 [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	: 20-0040(US)		
Section 2: Hazard Identification			
2.1 Classification of the substance or	mixture		
2.1.1 Physico-Chemical hazard			
Flammable Solids		•	N
2.1.2 Health Hazard		•	-
Acute toxicity (Oral)		:	N
Acute toxicity (Dermal)		÷	N
Acute toxicity (inhalation: du	ists/mists)		N
Skin corrosion/irritation		•	C
Serious eye damage/irritation	1	•	(
Respiratory sensitization		:	N

## S

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 1
	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)	:	Not classified
	2.1.3 Environmental Hazard		

Acute environmental toxicity

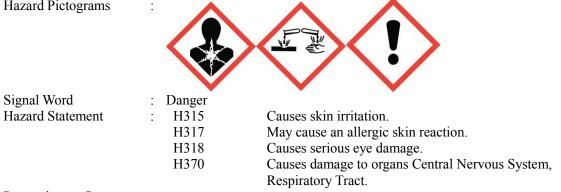
: Not classified

\* 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



Precautionary Statement

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General Precautions	:	P101	If medical advice is needed, have product container
		D102	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
		1 502 1 504	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
r	-		disposal plant in accordance with
			local/regional/national/international regulations.
			iooui, iogional, 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

Chemical Name	CAS No.	Concentration (w/w %)
Not applicable	Not applicable	Not applicable
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
PARAFFIN	8002-74-2	1 - 5
LANOLIN	8006-54-0	1 - 5
MINERAL OIL	8042-47-5	0.1 - 1
ASCORBIC ACID	50-81-7	0.1 - 1
AMODIMETHICONE	71750-79-3, 106842-44-8, 68554-54-1	0.1 - 1

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ISOPROPYL ALCOHOL	67-63-0	0.1 - 1
p-PHENYLENEDIAMINE	106-50-3	0.1 - 1
p-AMINOPHENOL	123-30-8	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 h	ist And Wiedsures
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 S	ymptoms/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 information available.
5.2 Specific Hazards Arising from the Chemicals	:	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

central reclucintal release with	isures	
6.1 Personal Precautions, Protect	ive Equ	ipment and Emergency Procedures
Protective Equipment	:	Refer to protective measures listed in Section '
		further lookage or spillage if safe to do so

	Turther leakage of spinage 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.

7 and 8. Prevent

6.3 Methods and Materials for Containment and Cleaning up

For Containment For Cleaning up Other Information	: :	Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. 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

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>	$25 \text{ mg/m}^3$	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

: Tight sealing safety goggles.

: Wear protective gloves and protective clothing. Long sleeved

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Respiratory Protection	:	clothing. Impervious gloves. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced,
		ventilation and evacuation may be required.
Thermal Hazard	:	Not available
Other Requirements	:	Handle in accordance with good industrial hygiene and safety
		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**

section 5. I hysicar and Chemicar I roper ites			
Physical State	:	Solid (Cream)	
Color	:	Yellow to yellowish brown	
Odor	:	Characteristic odor	
рН	:	9.3 - 10.3	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 CETETH-30

LD50(oral, rat) = 1260 mg/kg

AMMONIUM HYDROXIDE

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STEARETH-2 AMMONIUM BICARBONATE BEHENTRIMONIUM CHLORIDE p-PHENYLENEDIAMINE p-AMINOPHENOL Skin Corrosion/Irritation CETETH-30 AMMONIUM HYDROXIDE BEHENTRIMONIUM CHLORIDE AMODIMETHICONE p-PHENYLENEDIAMINE p-AMINOPHENOL FRAGRANCE Serious Eye Damage/Irritation **PEG-32** CETETH-30 AMMONIUM HYDROXIDE BEHENTRIMONIUM **CHLORIDE** PARAFFIN AMODIMETHICONE ISOPROPYL ALCOHOL p-PHENYLENEDIAMINE p-AMINOPHENOL

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

p-AMINOPHENOL

LD50(oral, rat) = 350 mg/kgLD50(oral, rat) = 25000 mg/kgLD50(oral, rat) = 1576 mg/kgLD50(oral, rat) = 1000 mg/kg

LD50(oral, rat) = 80 mg/kg LC50(inhalation: dusts/mists, rat) = 0.92 mg/L LD50(oral, rat) = 671 mg/kg

Moderate 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. Causes skin irritation.

Slightly irritant at 2.5 % and moderately irritant at 10 - 50 % on rabbit and its PII was 1.4 - 3.4 (BUA 97, 1995). 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 eyes, and high concentration solutions ( $\ge 10\%$ ) may cause severe burnings with turbidity or angiogenesis. Slightly or mild irritant (rabbit, IUCLID, 2000 and RTECS,

2008). Causes serious eye damage.

Mild to strong irritation (rabbit) (EHC, 1990, SIDS, 2002, PATTY 6th, 2012, and ECETOC TR48, 1998). Slightly irritant (Draize, rabbit) (BUA 97, 1995). 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)

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 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 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

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FRAGRANCE 4-AMINO-2-HYDROXYTOLUEN E Germ Cell Mutagenicity : p-AMINOPHENOL	<ul> <li>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).</li> <li>No information available</li> <li>Positive in mice LLNA (NTP, 2006) and allergic exzema by human patch test (HSDB, 2016).</li> <li>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</li> </ul>
Carcinogenicity :	DB access on May 2017) No information available
Reproductive Toxicity : ISOPROPYL ALCOHOL	Two generation test on rat by oral exposure showed decrease in copulation rate on parent and decrease in weight and increase
p-AMINOPHENOL	in death rate (PATTY 6th, 2012 and SIDS (2002)). 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 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 malformation

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STOT Single Francesco	were seen (SIDS 2010, Patty 6th, 2012, SCCS 2011, Risk Assessment by Ministry of the Environment Vol. 5: Temporary Hazard Assessment Sheet 2006).
STOT – Single Exposure : AMMONIUM HYDROXIDE	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
	temperature decrease, and abnormal cardiac rhythm (SIDS
	(2002), EHC 103 (1990)).
PARAFFIN	Wax fume is mild irritant on eyes, nose, and throat (PATTY5th, 2001)
p-PHENYLENEDIAMINE	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).
STOT – Repeated Exposure :	
ISOPROPYL ALCOHOL	Vapor exposure of this substance on rat for 4 month showed decrease in number of leucocyte at $100 \text{ mg/m}^3$ , and pathologic
	effect on organs of respiration such as lung and respiratory
	tract, liver and spleen at $500 \text{ mg/m}^3$ (EHC 103 (1990)).
MINERAL OIL	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).
p-AMINOPHENOL	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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p-PHENYLENEDIAMINE	Hazard Assessment Sheet 2006, PATTY 6th 2012). 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 pneumonia and/o			or chemical		
Information on the Likely Routes of Expo	sure	1 0				
Inhalation	Specific test data	for the substand	ce or mixture is i	not available.		
	May cause irritat					
Eye contact :	Specific test data			not available.		
5	Expected to be a					
	irritating to eyes.					
	May cause irreve			,		
Skin contact :	Specific test data			not available.		
	Ingestion may ca					
	skin. Prolonged					
Ingestion :	Specific test data					
	Ingestion may ca					
	may cause gastro	ointestinal irritat	ion, nausea, von	niting and		
	diarrhea. May be	harmful if swal	lowed (based on	components).		
Symptoms related to the Physical, :	Erythema (skin r	edness). May ca	use redness and	tearing of the		
Chemical and Toxicological	eyes. May cause	blindness. Burn	ing, itching, rusl	nes and/or		
Characteristics	hives.					
Delayed, Immediate, and Chronic :	May cause sensit	tization of susce	ptible persons. N	/lay cause		
Effects from Short and Long Term	sensitization by s	skin contact.				
Exposure						
Carcinogenicity :	The table below	indicates whether	er each agency h	as listed any		
	ingredient as car	cinogen.				
Chemical Name	ACGIH	IARC	NTP	OSHA		
ISOPROPYL ALCOHOL	A4	Group 3	-	-		
p-PHENYLENEDIAMINE	A4	Group 3	-	-		
MINERAL OIL	-	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

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BEHENTRIMONIUM CHLORIDE p-PHENYLENEDIAMINE p-AMINOPHENOL POLYQUATERNIUM-4 FRAGRANCE Toxicity on Terrestrial Organisms :	EC50 (Daphnia magna, 48 hrs.) = 0.16 mg/kg LC50 (Oryzias latipes, 96 hrs.) = 0.066 mg/L NOEC (Daphnia magna, 21 days) = 0.043 mg/L EC50 (Pseudokirchneriella subcapitata, 72 hrs.) = 0.1 mg/L NOEC (Pseudokirchneriella subcapitata, 72 hrs) = 0.025 mg/L No information available No specific information given on the SDS from manufacturer. No information available.
Persistence and Degradability : BEHENTRIMONIUM CHLORIDE MINERAL OIL p-PHENYLENEDIAMINE p-AMINOPHENOL POLYQUATERNIUM-4 Bioaccumulative Potential : BEHENTRIMONIUM CHLORIDE MINERAL OIL p-AMINOPHENOL POLYQUATERNIUM-4 Mobility in Soil :	BOD = 0 % Persistent (IUCLID, 2000) BOD = 5 % BOD = 6 % No information available Low bioaccumulation Log Pow > 6 (IUCLID, 2000) BCF = 46 No information available No information available.
Other Adverse Effects :	No information available.
Section 13: Disposal Considerations Product/Packaging Disposal Waste Treatment-Relevant Information	<ul> <li>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.</li> <li>No information available.</li> </ul>
Sewage Disposal-Relevant Information Other Disposal Recommendation	

### **Section 14: Transport Information**

	DOT/TDG	IATA/ICAO	IMDG/IMO				
UN Number			Not Regulated				
UN Proper Shipping Name	Not Dogulated	Not Dogulated					
Transport Hazard Classes	Not Regulated	Not Regulated					
Packing Group							
DOT US Department of Transportation							

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 Transport in Bulk According to ANNEX

: No information available.

ording to ANNEX : No information available.

II of MARPOL 73/78 and IBC Code

#### Section 15: R ry Informatic auloto

International chemical inventorie	S					
Toxic substances control act (TSC	_			this product are ei	ther listed o	r are
	exempt on the TSCA inventory.					
Domestic Substance list (DSL)	:	Substances co	mply	y or are exempt.		
US Federal Regulation		G.,	CT:4		1 4 1	
Title III of the Superfund Amend	ments :			le III of the Superfi		
and Reauthorization act of 1986				t of 1986 (SARA)		
(SARA 313)				nicals which are su e act and title 40 or		
		Regulations (				Tracial
Chemical Name		Regulations (		RA 313 - Threshol	d values (%	)
AMMONIUM HYDROXIDE				as ammonia	a values (70	)
ISOPROPYL ALCOHOL			1.0	us unintentiu		
p-PHENYLENEDIAMINE			1.0			
SARA 311/312 Hazard Category	:	Acute health		ď	Yes	
		Chronic healt			No	
		Fire hazard			No	
			e of	pressure hazard	No	
		Reactive haza		•	No	
Clean Water Act (CWA)	:	This product	conta	ins the substances	which are re	egulated a
				to the Clean Water		
Clean Air Act (CAA)	:			ins the substances		
				to the Clean Air A		
Comprehensive Environmental	:			upplied, does not c		
Response Compensation and Lial	oility			dous substance und		
Act (CERCLA)				sponse Compensat	ion and Liab	oility Act
Hazardous Substance		(40 CFR 302) Statutory Cod		RCRA Waste No.	Einal D	O Dounda
AMMONIUM HYDROXIDE			le ·	KCKA waste No.		$\frac{Q \text{ Pounds}}{454 \text{ kg}}$
AMMONIUM BICARBONATI	C	1		-	1000 lb ( 5000 lb(2	
p-PHENYLENEDIAMINE	<u>د</u>	3		-	5000 lb(2	
* According to 40 CFR 302, The	"Statutor	-	indi	-		
each substance as a CERCLA haz			mui	cates the statutory	source for u	esignating
"1" indicates that the statutory so			of the	e Clean Water Act		
"2" indicates that the source is se					)	
"3" indicates that the source is se						
"4" indicates that the source is se					covery Act (	(RCRA).
					2	· · · ·
<u>US State Regulations</u> California Hazardous Waste Code				queous solution)		
<u>US State Regulations</u> California Hazardous Waste Code					ornia as haz	ardous
<u>US State Regulations</u> California Hazardous Waste Code This product contains one or mor waste.		es that are liste	d wit	th the state of Calif		ardous
US State Regulations California Hazardous Waste Code This product contains one or mor waste. Chemical Name		es that are liste	d wit			ardous
US State Regulations California Hazardous Waste Code This product contains one or mor waste. Chemical Name AMMONIUM HYDROXIDE		es that are liste Cali X, C	d wit	th the state of Calif		zardous
US State Regulations California Hazardous Waste Code This product contains one or mor waste. Chemical Name AMMONIUM HYDROXIDE ISOPROPYL ALCOHOL		cali Cali X, C	d wit	th the state of Calif		zardous
US State Regulations California Hazardous Waste Code This product contains one or mor waste. Chemical Name AMMONIUM HYDROXIDE ISOPROPYL ALCOHOL p-PHENYLENEDIAMINE	e substanc	es that are liste Cali X, C X, I X	d wit	h the state of Calif a Hazardous Waste	Code	zardous
US State Regulations California Hazardous Waste Code This product contains one or mor waste. Chemical Name AMMONIUM HYDROXIDE ISOPROPYL ALCOHOL p-PHENYLENEDIAMINE California Hazardous Waste Code	e substanc	es that are liste Cali X, C X, I X ic, C – Corrosi	d wit	h the state of Calif a Hazardous Waste – Ignitable, R - rea	ctive	
US State Regulations California Hazardous Waste Code This product contains one or mor waste. Chemical Name AMMONIUM HYDROXIDE ISOPROPYL ALCOHOL p-PHENYLENEDIAMINE California Hazardous Waste Code California Proposition 65	e substanc e: X – Tox :	es that are liste Cali X, C X, I X ic, C – Corrosi	d wit	h the state of Calif a Hazardous Waste	ctive	
US State Regulations California Hazardous Waste Code This product contains one or mor waste. Chemical Name AMMONIUM HYDROXIDE ISOPROPYL ALCOHOL p-PHENYLENEDIAMINE California Hazardous Waste Code California Proposition 65	e substanc e: X – Tox ions :	es that are liste Cali X, C X, I X ic, C – Corrosi	d wit	h the state of Calif a Hazardous Waste – Ignitable, R - rea	ctive ctive oposition 65	
US State Regulations California Hazardous Waste Code This product contains one or mor waste. Chemical Name AMMONIUM HYDROXIDE ISOPROPYL ALCOHOL	e substanc e: X – Tox ions : New	es that are liste Cali X, C X, I X ic, C – Corrosi	d wit fornia ve, I does	h the state of Calif a Hazardous Waste – Ignitable, R - rea not contain any Pro	ctive coposition 65	
US State Regulations California Hazardous Waste Code This product contains one or mor waste. Chemical Name AMMONIUM HYDROXIDE ISOPROPYL ALCOHOL p-PHENYLENEDIAMINE California Hazardous Waste Code California Proposition 65 US State Right-to-Know Regulat	e substanc e: X – Tox ions :	es that are liste Cali X, C X, I X, I ic, C – Corrosi This product	d wit fornia ve, I does	h the state of Calif a Hazardous Waste – Ignitable, R - rea	ctive ctive oposition 65	i chemical

Issue Date: 2020/3/31 Revised Date:

AMMONIUM BICARBONATE	Х	Х	Х	-	Х
LANOLIN	-	-	Х	Х	-
PARAFFIN	Х	Х	Х	Х	-
MINERAL OIL	Х	Х	Х	Х	-
ISOPROPYL ALCOHOL	X	Х	X	X	-
p-PHENYLENEDIAMINE	Х	Х	Х	X(skin)	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.
- 2. National Institute of Technology and Evaluation (http://www.nite.go.jp/en/index.html)
- SDS provided from raw material manufactures 3.
- 4. United States Code (http://uscode.house.gov/browse.xhtml)
  - Title 21 Food and Drugs Chapter 9 Federal Food, Drug, and Cosmetic Act a)
  - Title 33 Navigation and Navigable Waters Chapter 26 Water Pollution Prevention and Control b)
  - 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.
  - 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 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)
  - Hazardous Materials Emergency Act (430 ILCS 50) h)
  - 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.
- 8. TSCA Chemical Substance Inventory (https://www.epa.gov/tsca-inventory)
- International Agency for Research on Cancer (http://www.iarc.fr/) 9.
- 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/)

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