Section 1: Identification

2020/3/31

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Product identifier	:	Mixture
Product name	:	PROMASTER(Z) R-10/12 [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	:	20-0042(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 1
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

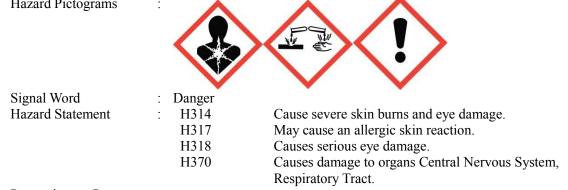
: Not classified

* 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

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	:	P260	Do not breathe dust/fume/gas/mist/vapors/spray.
		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.
		P270	Do not eat, drink or smoke when using this product.
Responses	:	P301+P330+	IF SWALLOWED: Rinse mouth. Do NOT induce
1		P331	vomiting.
		P303+P361+	IF ON SKIN (or hair): Take off immediately all
		P353	contaminated clothing. Rinse skin with water or
			shower.
		P363	Wash contaminated clothing before reuse.
		P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
		P316	Get emergency medical help immediately.
		P321	Specific treatment (see section 4 on this SDS).
		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.
		P302+P352	IF ON SKIN: Wash with plenty of water.
		P333+P317	If skin irritation or rash occurs: Get medical help.
		P362+P364	Take off contaminated clothing and wash it before
			reuse.
		P308+P316	IF exposed or concerned: Get emergency medical help immediately.
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.
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2.3 Other hazards

2.65% 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

Substance :		
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	10 - 20
CETETH-30	68439-49-6	5 - 10
AMMONIUM HYDROXIDE	1336-21-6	1 - 5
STEARETH-2	9005-00-9	1 - 5
	Not applicable Mixtures Chemical Name PEG-32 CETETH-30 AMMONIUM HYDROXIDE	Chemical NameCAS No.Not applicableNot applicableMixtures:Chemical NameCAS No.PEG-3225322-68-3CETETH-3068439-49-6AMMONIUM HYDROXIDE1336-21-6

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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
MINERAL OIL	8042-47-5	0.1 - 1
ASCORBIC ACID	50-81-7	0.1 - 1
4-AMINO-2-HYDROXYTOLUENE	2835-95-2	0.1 - 1
	71750-79-3,	
AMODIMETHICONE	106842-44-8,	0.1 - 1
	68554-54-1	
ISOPROPYL ALCOHOL	67-63-0	0.1 - 1
2-METHYL-5-HYDROXYETHYLAMINOPHENOL	55302-96-0	0.1 - 1
FRAGRANCE	N.A.	0.1 - 1
POLYQUATERNIUM-4	92183-41-0	0.1 - 1
p-AMINOPHENOL	123-30-8	0.1 - 1
p-PHENYLENEDIAMINE	106-50-3	0.1 - 1
SODIUM SULFITE	7757-83-7	0.1 - 1

Section 4 : First-aid Measures

	10000105
4.1 Description of I	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 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.

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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
I foteetive Equipment	•	•
		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.
6.3 Methods and Materials for Conta	inm	nent 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	5
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Coccupational Exposure I	Jillito .			
Chemical Name	ACGIH TLV	NIOSH IDLH	NIOSH REL	OSHA PEL
			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	-
p-PHENYLENEDIA	TWA: 0.1 mg/m^3	25 mg/m^3	TWA: 0.1 mg/m^3	TWA: 0.1 mg/m^3
MINE	I WA. 0.1 mg/m	23 mg/m	[skin]	[skin]
MINERAL OIL	TWA : 5 mg/m ³ (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 Dangerous to Life or Health.

NIOSH IDLH: The National Institute for Occupational Safety and Health – Immediately Dangerous to Life or Health Concentrations.

Ene of meanin concentrations.	
8.2 Engineering Controls	: Showers
	Eyewash station
	Ventilation system
8.3 Individual Protection Measures	
Eye/Face Protection	: Tight sealing safety goggles.
Skin Protection	: Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.
Respiratory Protection	: 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

Color:White to yellowish whiteOdor:Characteristic odorpH:9.6 - 10.6pH meter (1% aq. sol.)Melting/Freezing Point:No data availableNot knownInitial Boiling Point and Boiling Range:No data availableNot knownFlash Point:No data availableNot knownEvaporation Rate:No data availableNot knownFlammability (Solid, Gas):Not meet a criteria under burning rate test by judging from the product compositionNot knownUpper/lower Flammability or Explosive:No data availableNot knownLimits:No data availableNot knownVapor Pressure:No data availableNot knownDensity:No data availableNot knownSolubility:No data availableNot knownSolubility:No data availableNot knownPartition Coefficient: n-octanol/water:No data availableNot knownAutoignition temperature:No data availableNot knownViscosity:60000 - 90000 mPa • sType B viscometer (No. 4 rotor/6 rpm/1 min)Kinetic viscosity:No data availableNot knownParticle characteristics:No data availableNot knownExplosive property:No data availableNot knownViscosity:No data availableNot knownKinetic viscosity:No data availableNot known<	Physical State	:	Solid (Cream)	
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	VOC contents (%)	:	No data available	
Other Information : No information available	Other Information	:	No information available	

Section 10: Stability and Reactivity Reactivity

: No data available

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Chemical Stability Possibility of Hazardous Reactions Conditions to Avoid Incompatible Materials Hazardous Decomposition Products	 Stable under recommended storage conditions. None under normal processing. None known Oxidative agent and acid materials. 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	LD50(oral, rat) = 350 mg/kg
STEARETH-2	LD50(oral, rat) = 25000 mg/kg
AMMONIUM BICARBONATE	LD50(oral, rat) = 1576 mg/kg
BEHENTRIMONIUM CHLORIDE	LD50(oral, rat) = 1000 mg/kg
2-METHYL-5-HYDROXYETHYL AMINOPHENOL	LD50(oral, mice) = 1350 mg/kg
p-AMINOPHENOL	LD50(oral, rat) = 671 mg/kg
p-PHENYLENEDIAMINE	LD50(oral, rat) = 80 mg/kg
-	LC50(inhalation: dusts/mists, rat) = 0.92 mg/L
Skin Corrosion/Irritation :	
CETETH-30	Moderate irritation (Draize, Rabbit, RTECS).
AMMONIUM HYDROXIDE	Corrosive (rabbit, 20 % aq. Sol.) (SIDS 2008).
BEHENTRIMONIUM	Corrosive to skin. Low concentration solution (1%) causes skin
CHLORIDE	irritation, and high concentration solutions ($\geq 10\%$) may cause inflammation, rash, etc.
AMODIMETHICONE	Causes skin irritation.
FRAGRANCE	No information available
p-AMINOPHENOL	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).
p-PHENYLENEDIAMINE	Slightly irritant at 2.5 % and moderately irritant at $10 - 50$ % on rabbit and its PII was $1.4 - 3.4$ (BUA 97, 1995).
Serious Eye Damage/Irritation :	
PEG-32	Mild irritant (rabbit), but recovered within 24 to 48 hrs.
CETETH-30	Moderate irritation (Draize, Rabbit, RTECS).
AMMONIUM HYDROXIDE	Corrosive (rabbit, 28.5 % aq. Sol.) (HSDB (Access on June 2014)).
BEHENTRIMONIUM	Low concentration solution $(0.1 - 1\%)$ is strongly irritant to
CHLORIDE	eyes, and high concentration solutions ($\geq 10\%$) may cause
PARAFFIN	severe burnings with turbidity or angiogenesis. Slightly or mild irritant (rabbit, IUCLID, 2000 and RTECS, 2008).
AMODIMETHICONE	Causes serious eye damage.
4-AMINO-2-HYDROXYTOLUEN	Shown slight reaction on conjunctiva on rabbit eye (HSDB,
E	2016).
ISOPROPYL ALCOHOL	Mild to strong irritation (rabbit) (EHC, 1990, SIDS, 2002, PATTY 6th, 2012, and ECETOC TR48, 1998).
FRAGRANCE	No information available
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)

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p-PHENYLENEDIAMINE SODIUM SULFITE Respiratory or Skin Sensitization :	Slightly irritant (Draize, rabbit) (BUA 97, 1995). Causes eye irritation. Slight irritation on rabbit eyes.
4-AMINO-2-HYDROXYTOLUEN E	Positive in mice LLNA (NTP, 2006) and allergic exzema by human patch test (HSDB, 2016).
FRAGRANCE p-AMINOPHENOL	No information available There was a report causing bronchial asthma (HSDB (Access on May 2017). It is stated that this substance is contained in
p-PHENYLENEDIAMINE	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 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.
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 :	
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)).
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 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

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	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).
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 mg/m ³ , and pathologic effect on organs of respiration such as lung and respiratory tract, liver and spleen at 500 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

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p-PHENYLENEDIAMINE	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 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 :					
	Inhalation of oil or liquid to lung may cause lipid or chemical				
	pneumonia and/c	or lipid granulon	na.		
Information on the Likely Routes of Exposi	ure				
Inhalation :	Specific test data for the substance or mixture is not available.				
	May cause irritat	ion of respirator	ry tract.		
	Specific test data			not available.	
	Expected to be an				
	irritating to eyes.		-	•	
	May cause irreve				
	Specific test data			not available	
	Ingestion may ca				
	skin. Prolonged o		-	-	
	Specific test data				
	Ingestion may ca				
	may cause gastro				
	diarrhea. May be				
	Erythema (skin r				
5 1	eyes. May cause	/ 2		0	
•	hives.				
	May cause sensit	tization of susce	ptible persons N	lav cause	
	sensitization by s		1 - F-2010, IV	,	
Exposure					
Carcinogenicity : The table below indicates whether			er each agency h	as listed any	
	ingredient as carcinogen.			<u> </u>	
Chemical Name	ACGIH	IARC	NTP	OSHA	
ISOPROPYL ALCOHOL	A4	Group 3	-	-	
p-PHENYLENEDIAMINE	A4	Group 3	-	-	
MINERAL OIL	_	Group 3	_	-	

 DFFRENTLENEDIAMINE
 A4
 Group 5

 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

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 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.

Toxicity on require organisms .	
AMMONIUM HYDROXIDE	LC50 (Mysidopsis bahia, 96 hrs.) = $2.81 - 98.9$ mg total NH ₃ /L (SIDS, 2007)
AMMONIUM BICARBONATE	LC50 (96 hrs., Oncorhynchus mykiss)=17300 μ g/L
BEHENTRIMONIUM CHLORIDE	EC50 (Daphnia magna, 48 hrs.) = 0.16 mg/kg
FRAGRANCE	No specific information given on the SDS from manufacturer.
POLYQUATERNIUM-4	No information available
p-AMINOPHENOL	EC50 (Pseudokirchneriella subcapitata, 72 hrs.) = 0.1 mg/L
	NOEC (Pseudokirchneriella subcapitata, 72 hrs) = 0.025 mg/L
p-PHENYLENEDIAMINE	LC50 (Oryzias latipes, 96 hrs.) = 0.066 mg/L
	NOEC (Daphnia magna, 21 days) = 0.043 mg/L
Toxicity on Terrestrial Organisms :	No information available.
Persistence and Degradability :	
BEHENTRIMONIUM CHLORIDE	BOD=0%
MINERAL OIL	Persistent (IUCLID, 2000)
POLYQUATERNIUM-4	No information available
p-AMINOPHENOL	BOD = 6 %
p-PHENYLENEDIAMINE	BOD = 5 %
Bioaccumulative Potential :	
BEHENTRIMONIUM CHLORIDE	Low bioaccumulation
MINERAL OIL	Log Pow > 6 (IUCLID, 2000)
POLYQUATERNIUM-4	No information available
p-AMINOPHENOL	BCF = 46
Mobility in Soil	No information available.
Nicomty III Son .	
Other Adverse Effects :	No information available.

Section 13: Disposal Considerations

Product/Packaging Disposal	This material, as supplied, is not a hazardou according to Federal regulation (40 CFR 26 could become a hazardous waste if it is mix otherwise comes in contact with a hazardou chemical additions are made to this materia material is processed or otherwise altered. (26) 261 to determine whether the altered mater waste. Consult the appropriate state, region regulations for additional requirements.	51). This material ked with or us waste, if l, or if the Consult 40 CFR ial is a hazardous
Waste Treatment-Relevant Information	No information available.	
Sewage Disposal-Relevant Information	No information available.	
Other Disposal Recommendation	Dispose of contents/containers in accordance regulation (refer to Section 15).	ce with local

Section 14: Transport Information

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	DOT/TDG	IATA/ICAO	IMDG/IMO
UN Number	3147	3147	3147
UN Proper Shipping Name	DYE, SOLID,	DYE, SOLID,	DYE, SOLID,
	CORROSIVE,	CORROSIVE,	CORROSIVE,
	N.O.S.	N.O.S.	N.O.S.
Transport Hazard Classes	Class 8 Corrosive	Class 8 Corrosive	Class 8 Corrosive
	Substances	Substances	Substances
Packing Group	group III	group III	group III

DOT: US Department of Transportation

TDG: UN model regulation of Transport of Dangerous Goods

IATA/ICAO: International Air Transport Association/International Civil Aviation OrganizationIMDG/IMO: International Maritime Dangerous Goods/International Maritime OrganizationEnvironmental 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 Regulat	Specific for the Product	
International chemical inventories		
Toxic substances control act (TSCA)	All components of this product are either list exempt on the TSCA inventory.	ed or are
Domestic Substance list (DSL) US Federal Regulation	Substances comply or are exempt.	
Title III of the Superfund Amendments and Reauthorization act of 1986 (SARA 313)	Section 313 of Title III of the Superfund Am Reauthorization act of 1986 (SARA). This pr a chemical or chemicals which are subject to requirements of the act and title 40 of the Co Regulations (CFR), Part 372.	roduct contains the reporting

Chemical Name		SA	RA 313 - Threshold	values (%)
AMMONIUM HYDROXIDE		1.0	as ammonia	
ISOPROPYL ALCOHOL		1.0	1	
p-PHENYLENEDIAMINE		1.0		
SARA 311/312 Hazard Category	:	Acute health haza	rd	Yes
		Chronic health ha	zard	No
		Fire hazard		No
		Sudden release of	pressure hazard	No
		Reactive hazard		No
Clean Water Act (CWA)	:	1	ains the substances w t to the Clean Water	which are regulated as Act (40 CFR 122).
Clean Air Act (CAA)	:	1	ains the substances v t to the Clean Air Ac	which are regulated as t (40 CFR 50 - 99).
Comprehensive Environmental : This material, as supplied, does not contain subs			ntain substance	
•			azardous substance under the Comprehensive	
Act (CERCLA)		Environmental Response Compensation and Liability Act (40 CFR 302).		
Hazardous Substance		Statutory Code*	RCRA Waste No	Final RO Pounds

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 "Statutory Code" column indicates the statutory source for designating each substance as a CERCLA hazardous substance:

"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
ISOPROPYL ALCOHOL	X, I
p-PHENYLENEDIAMINE	X

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 :

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
AMMONIUM HYDROXIDE	X	Х	Х	-	Х
AMMONIUM BICARBONATE	Х	Х	Х	-	Х
LANOLIN	-	-	Х	Х	-
PARAFFIN	Х	Х	Х	Х	-
MINERAL OIL	Х	Х	Х	Х	-
ISOPROPYL ALCOHOL	Х	Х	Х	Х	-
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

1. 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
 - a) 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/occusafo/pdfs/Hazardo
- (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
- 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 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.