Section 1: Identification

2020/3/31	

1450 1 01 15

1.1 Product identification		
Product identifier	:	Mixture
Product name	:	PROMASTER (Z) E BE-8 [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	:	20-0061(US)

Section 2: Hazard Identification

2.1 Classification of the substance or mixture	
2.1.1 Physico-Chemical hazard	
Flammable Solids	: Not classified
2.1.2 Health Hazard	
Acute toxicity (Oral)	: Not classified
Acute toxicity (Dermal)	: Not classified
Acute toxicity (inhalation: dusts/mists)	: Not classified
Skin corrosion/irritation	: Category 2
Serious eye damage/irritation	: Category 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	
a construction of the second	

Acute environmental toxicity

: Not classified

* For those not listed on "2.1 Classification of the Substance or Mixture" are either "Not Applicable" or "Classification not Possible."

* Hazard identification is made according to the 2012 OSHA communication Standard (29 CFR 1910.1210) and GHS rev. 7.

2.2 Label Element

Hazard Pictograms		
Signal Word	: Danger	
Hazard Statement	: H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H370	Causes damage to organs Central Nervous System,
		Respiratory Tract, Blood.

Precautionary Statement

Safety Data Sheet

General Precautions		P101	If medical advice is needed, have product container
General Trecautions	•	1101	or label at hand.
		P102	Keep out of reach of children.
		P103	Read label before use.
Preventions	:	P264	Wash face, hands and any exposed skin thoroughly after handling.
		P280	Wear protective gloves/protective clothing/eye protection/face protection.
		P272	Contaminated work clothing should not be allowed out of the workplace.
		P260	Do not breathe dust/fume/gas/mist/vapors/spray.
		P270	Do not eat, drink or smoke when using this product.
Responses	:	P302+P352	IF ON SKIN: Wash with plenty of water.
		P321	Specific treatment (see section 4 on this SDS).
		P362+P364	Take off contaminated clothing and wash it before reuse.
		P305+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 help immediately.
Storage		P405	Store locked up.
Disposal	•	P501	Dispose of contents/container to an approved waste
2 lop obwi	•		dispose of contents container to an approved water disposal plant in accordance with
			local/regional/national/international regulations.
			5

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
RESORCINOL	108-46-3	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
TOLUENE-2,5-DIAMINE SULFATE	6369-59-1	0.1 - 1
MINERAL OIL	8042-47-5	0.1 - 1
p-AMINOPHENOL	123-30-8	0.1 - 1
AMODIMETHICONE	71750-79-3,	0.1 - 1

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	106842-44-8,	
	68554-54-1	
ASCORBIC ACID	50-81-7	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
m-AMINOPHENOL	591-27-5	0.1 - 1
SODIUM SULFITE	7757-83-7	0.1 - 1

Section 4 : First-aid Measures

4.1 Description of First Aid Measures

	st ma micusules			
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 Pers	son 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.
· · ·	:	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 Fire-fighter	:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and
		full protective gear.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective	Equ	ipment 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.

6.3 Methods and Materials for Containment and Cleaning up

	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

: 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.
: Do not eat, drink or smoke when using this product.
: Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.
: Do not store with strong acids, strong oxidizing agents and/or strong bases.
: Not available

Section 8: Exposure Controls/Personal Protection

·

8.1 Occupational Exposure Limits

Chemical Name	ACGIH TLV	NIOSH IDLH	NIOSH REL	OSHA PEL
ISOBDODVI	TWA : 200 mm	2000 mmm	TWA: 400 ppm (0.80 mg/m^3)	TWA: 400 mm
ISOPROPYL	TWA : 200 ppm,	2000 ppm	$(980 \text{ mg/m}^3),$	TWA: 400 ppm
ALCOHOL	ST : 400 ppm	[10%LEL]	ST: 500 ppm	(980 mg/m^3)
			(1225 mg/m^3)	
PARAFFIN	-	-	TWA : 2 mg/m^3	-
			TWA: 10 ppm	
RESORCINOL			$(45 \text{ mg/m}^3),$	
RESORCINOL	-	-	ST: 20 ppm	-
			(90 mg/m^3)	
MINERAL OIL	TWA : 5 mg/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.

8.2 Engineering Controls

: Showers Eyewash station Ventilation system **Safety Data Sheet**

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8.3 Individual Protection Measures Eye/Face Protection : Tight sealing safety goggles. Wear protective gloves and protective clothing. Long sleeved Skin Protection : 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

section 9. I hysical and Chemical I toper de	3		
Physical State	:	Solid (Cream)	
Color	:	White to yellowish white	
Odor	:	Characteristic odor	
pН	:	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	Not known
• • • •		burning rate test by judging	
		from the product	
		composition	
Upper/lower Flammability or Explosive	:	No data available	Not known
Limits			
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

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Information on Toxicological Effects	
Acute Toxicity :	1050(am1,mt) = 12(0,mm/lam)
CETETH-30	LD50(oral, rat) = 1260 mg/kg
AMMONIUM HYDROXIDE	LD50(oral, rat) = 350 mg/kg
STEARETH-2	LD50(oral, rat) = 25000 mg/kg
RESORCINOL	LD50(oral, rat) = 301 mg/kg
AMMONIUM BICARBONATE	LD50(oral, rat) = 1576 mg/kg
BEHENTRIMONIUM	LD50(oral, rat) = 1000 mg/kg
CHLORIDE	
TOLUENE-2,5-DIAMINE	LD50(oral, rat) = 98 mg/kg
SULFATE	
p-AMINOPHENOL	LD50(oral, rat) = 671 mg/kg
m-AMINOPHENOL	LD50(oral, rat) = 693 mg/kg
Skin Corrosion/Irritation :	
CETETH-30	Moderate irritation (Draize, Rabbit, RTECS).
AMMONIUM HYDROXIDE	Corrosive (rabbit, 20 % aq. Sol.) (SIDS 2008).
RESORCINOL	In the skin irritation test in which this substance was applied to
	rabbits for 24 hours, there were reports of skin irritation scores
	4.4 and 5.4, and scars and necrosis of the necrotic part were
	observed 14 days after application (SIDS (2009), DFGOT vol.
	20 (2003), CICAD 71 (2006)).
	In addition to reports that epidemiological investigations of 268
	human subjects showed a direct relationship between the
	occurrence of dermatitis and this substance exposure (NTP TR
	403 (1992), ACGIH (7 th, 2001)) . Multiple dermatitis due to
	this substance exposure has been reported (SIDS (2009),
	PATTY (6 th, 2012)).
BEHENTRIMONIUM	Corrosive to skin. Low concentration solution (1%) causes skin
CHLORIDE	irritation, and high concentration solutions ($\geq 10\%$) may cause
	inflammation, rash, etc.
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).
AMODIMETHICONE	Causes skin irritation.
FRAGRANCE	No information available
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)).
RESORCINOL	In the eye irritation test using rabbit, there are reports that
	non-recovering conjunctivitis, iritis, corneal opacity
	occurred(SIDS (2009)). Also there were reports that
	nonrecorescious ulcer has developed (ACGIH (7th, 2001)). In
	addition, the irritation score is reported as 39.9-56.3 and 105
	(maximum value 110) (SIDS (2009), CICAD 71 (2006)).
BEHENTRIMONIUM	Low concentration solution $(0.1 - 1\%)$ is strongly irritant to
CHLORIDE	eyes, and high concentration solutions ($\geq 10\%$) may cause
	severe burnings with turbidity or angiogenesis.
PARAFFIN	Slightly or mild irritant (rabbit, IUCLID, 2000 and RTECS,
	2008).
TOLUENE-2,5-DIAMINE	In the test using rabbits, "mild response to conjunctiva" was
SULFATE	observed (HSDB, 2002).
p-AMINOPHENOL	There is a report that it is irritating to human eyes (HSDB

AMODIMETHICONE ISOPROPYL ALCOHOL

FRAGRANCE SODIUM SULFITE Respiratory or Skin Sensitization RESORCINOL

p-AMINOPHENOL

FRAGRANCE Germ Cell Mutagenicity p-AMINOPHENOL

Carcinogenicity

Reproductive Toxicity p-AMINOPHENOL Access on May 2017) and a report that mild irritancy was seen in eye irritation test using rabbits (SIAP 2010, HSDB Access on May 2017) Causes serious eye damage. Mild to strong irritation (rabbit) (EHC, 1990, SIDS, 2002,

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

No information available

Causes eye irritation. Slight irritation on rabbit eyes.

There was a report that the positive rate was seen to be 30% or more in skin sensitization test using guinea pig (OECD TG 406, GLP compliant) (SIDS (2009), DFGOT vol. 20 (2003)). 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). No information available

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)

No information available

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

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ISOPROPYL ALCOHOL	 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). Two generation test on rat by oral exposure showed decrease in
	copulation rate on parent and decrease in weight and increase in death rate (PATTY 6th, 2012 and SIDS (2002)).
STOT – Single Exposure :	
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)).
m-AMINOPHENOL	Acute toxicity test (oral) on rat (OECD TG401, GLP) showed occurrence of death at 700 mg/kg or more, and thrill, salivation, brown urine, prone, and decumbence at 500 mg/kg or more. Autopsy showed enlargement of spleen due to congestion for the dead case and dark red of spleen and dark brown of kidney at 700 and 1000 mg/kg.
PARAFFIN	Wax fume is mild irritant on eyes, nose, and throat (PATTY5th, 2001)
RESORCINOL	 (TATT15th, 2001) This substance has multiple human poisoning cases. After using ointment or cream (50% of this substance, 100 g) for the treatment of skin diseases, methemoglobinemia, cyanosis, convulsions due to loss of consciousness, tremor, convulsion, mydriasis, confusion, amnesia, disorientation were observed. In oral ingestion and percutaneous absorption poisoning cases of infants, burning sensation, convulsions, central nervous system disorder (dizziness, confusion, somnolence, disorientation, disorientation, memory loss, tremor), red blood cell change (methemoglobinemia, hemolytic anemia, hemoglobinuria, cyanosis), etc. were observed (ACGIH (7th, 2001), CICAD 71 (2006), IARC 71 (1999), PATTY (6th, 2012), DFGOT Vol. 20 (2003)). In experimental animals, in oral administration on rats salivation, hyperexcitability, tachypnea, ptosis, lethargy, abnormal gait, lying position, tremor, dyspnea, tremor, convulsion, sedation, tonic chronic convulsion, cyanosis, etc.

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	were reported (SIDS (2009), ACGIH (7th, 2001), DFGOT Vol.
	20 (2003), PATTY (6th, 2012), CICAD 71 (2006)).
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)).
m-AMINOPHENOL	The result of feeding test on female rat for 90 days at 0, 0.1,
	0.25, and 1 %, rat applied with 1 % group which is about 500
	mg/kg/day showed decrease in number of red blood cell and
	concentration of hemoglobin, increase in average red blood cell
	volume, and hemosiderosis and hemolyzing property on spleen,
	liver and kidney.
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
	Hazard Assessment Sheet 2006, PATTY 6th 2012).
Aspiration Hazard	· · · ·
MINERAL OIL	Inhalation of oil or liquid to lung may cause lipid or chemical
	pneumonia and/or lipid granuloma.
Information on the Likely Routes of Exp	posure
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
T /	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 diarrham May be harmful if gyallowed (based on components)
Symptoms related to the Physical,	diarrhea. May be harmful if swallowed (based on components).Erythema (skin redness). May cause redness and tearing of the
Symptoms related to the I hysical,	. Erymenia (skin reducss). Way cause reduces and learning of the

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Chemical and Toxicological eves. 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 Term sensitization by skin contact. Exposure Carcinogenicity The table below indicates whether each agency has listed any : ingredient as carcinogen.

	ingreatent ab ear	emogen.		
Chemical Name	ACGIH	IARC	NTP	OSHA
ISOPROPYL ALCOHOL	A4	Group 3	-	-
RESORCINOL	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

Section 12: Ecological Information

Toxicity on Aquatic Organisms :	
AMMONIUM HYDROXIDE	LC50 (Mysidopsis bahia, 96 hrs.) = $2.81 - 98.9$ mg total NH ₃ /L
	(SIDS, 2007)
RESORCINOL	EC50 (Daphnia magna, 48 hrs.) = 1.28 mg/L
AMMONIUM BICARBONATE	LC50 (96 hrs., Oncorhynchus mykiss)=17300 µg/L
BEHENTRIMONIUM CHLORIDE	EC50(Daphnia magna, 48 hrs.) = 0.16 mg/kg
p-AMINOPHENOL	EC50 (Pseudokirchneriella subcapitata, 72 hrs.) = 0.1 mg/L
	NOEC (Pseudokirchneriella subcapitata, 72 hrs) = 0.025 mg/L
POLYQUATERNIUM-4	No information available
FRAGRANCE	No specific information given on the SDS from manufacturer.
m-AMINOPHENOL	EC50 (Daphnia magna, 48 hrs.) = 0.447 mg/L
	NOEC (Daphnia magna, 21 days) = 0.050 mg/L
Toxicity on Terrestrial Organisms :	No information available.
Demoister en en de De angelatiliter	
Persistence and Degradability : RESORCINOL	BOD = 66.7%
BEHENTRIMONIUM CHLORIDE	BOD=0%
MINERAL OIL	Persistent (IUCLID, 2000)
p-AMINOPHENOL	BOD = 6%
POLYQUATERNIUM-4	No information available
m-AMINOPHENOL	Persistent (BOD = 0%)
Bioaccumulative Potential :	
RESORCINOL	$\log \text{Kow} = 0.8$
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.

[:] No information available.

ection 13: Disposal Considerations Product/Packaging Disposal	: This material, as supplied, is not a hazardous waste according to Federal regulation (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
Waste Treatment-Relevant Information Sewage Disposal-Relevant Information Other Disposal Recommendation	 No information available. No information available. Dispose of contents/containers in accordance with local regulation (refer to Section 15).

Section 14: Transport Information

	DOT/TDG	IATA/ICAO	IMDG/IMO
UN Number	201,120		
UN Proper Shipping Name			
Transport Hazard Classes	Not Regulated	Not Regulated	Not Regulated
Packing Group			
DOT: US Department of Transporta	ition		
TDG: UN model regulation of Tran		ods	
IATA/ICAO: International Air Trans			rganization
IMDG/IMO: International Maritime			
Environmental Hazards		ation available.	
Special Precautions for User		ation available.	
Transport in Bulk According to AN		ation available.	
II of MARPOL 73/78 and IBC Code			
Seattle 15 Dec Later Lafe and			
Section 15: Regulatory Information Safety, Health, and Environmental F	Dogulations Specific fo	r the Droduct	
International chemical inventorie		i the Product	
Toxic substances control act (TS		nents of this product are	aithar listad ar ara
Toxic substances control act (150		the TSCA inventory.	entiter listed of are
Domestic Substance list (DSL)		comply or are exempt.	
<u>US Federal Regulation</u>	. Substances	compry of are exempt.	
Title III of the Superfund Amend	ments : Section 31.	3 of Title III of the Super	fund Amendments and
and Reauthorization act of 1986). This product contains
(SARA 313)		or chemicals which are	
()		its of the act and title 40	
		s (CFR), Part 372.	
Chemical Name	0	SARA 313 – Thresh	old values (%)
AMMONIUM HYDROXIDE		1.0 as ammonia	
ISOPROPYL ALCOHOL		1.0	
SARA 311/312 Hazard Category	: Acute heal	th hazard	Yes
C J	Chronic he	alth hazard	No
	Fire hazard	l	No
	Sudden rel	ease of pressure hazard	No
	Reactive ha		No
Clean Water Act (CWA)			es which are regulated as
	pollutant p	ursuant to the Clean Wat	er Act (40 CFR 122).
	ponatant p		
Clean Air Act (CAA)	: This produ	ct does not contain subst	

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) This material, as supplied, contains one or more substances regulated as hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (40 CFR 302).

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

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	Х	Х	Х	-	Х
RESORCINOL	Х	Х	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	X	X	X	X	_

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

- 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/occusafe/pdfs/HazardousABC.pdf)
 - g) Illinois Chemical Safety Act (430 ILCS 45)
 - h) Hazardous Materials Emergency Act (430 ILCS 50)
 - i) Illinois Emergency Planning and Community Right to Know Act (430 ILCS 100)
- 7. Domestic Substance List (http://www.ec.gc.ca/LCPE-CEPA/default.asp?lang=En&n=5F213FA8-1)
- 8. TSCA Chemical Substance Inventory (https://www.epa.gov/tsca-inventory)
- 9. International Agency for Research on Cancer (http://www.iarc.fr/)
- 10. American Conference of Governmental Industrial Hygienists (http://www.acgih.org/)
- 11. US Environmental Protection Agency (https://www3.epa.gov/)
- 12. US Department of Labor, Occupational Safety and Health Administration (https://www.osha.gov/)
- 13. The National Institute for Occupational Safety and Health (http://www.cdc.gov/niosh/about/default.html)
- 14. US Department of Health and Human Services, National Toxicology Program (https://ntp.niehs.nih.gov/)
- 15. US Department of Transportation (https://www.transportation.gov/)
- 16. International Air Transport Association (http://www.iata.org/Pages/default.aspx)
- 17. International Civil Aviation Organization (http://www.icao.int/Pages/default.aspx
- 18. International Maritime Organization
 - (http://www.imo.org/en/Publications/IMDGCode/Pages/Default.aspx)
- 19. California Environmental Protection Agency (http://oehha.ca.gov/)
- 20. National Fire Protection Association (http://www.nfpa.org/)

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