Section 1: Identification

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Product identifier Product name	: Mixture : PROMASTER(Z) G-9p [Colorant]
Product code	: Not available
Recommended uses Restrictions on uses	Cosmetics - Hair Coloring ProductNo information available
1.2 Identification of company Manufacturer/Supplier name Division	: Hoyu America Co.
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	: 20-0085(US)

Section 2: Hazard Identification

2.1 Classification of the substance or mixture		
2.1.1 Physico-Chemical hazard		
Flammable Solids	: Not classified	
2.1.2 Health Hazard		
Acute toxicity (Oral)	: Not classified	
Acute toxicity (Dermal)	: Not classified	
Acute toxicity (inhalation: dusts/mists)	: Not classified	
Skin corrosion/irritation	: Category 2	
Serious eye damage/irritation	: Category 2	
Respiratory sensitization	: Not classified	
Skin sensitization	: Category 1	
Mutagenicity	: Not classified	
Reproductive toxicity	: Not classified	
Aspiration hazard	: Not classified	
Specific target organ toxicity (single exposure)	: Category 1	
Specific target organ toxicity (repeated exposure)	: Category 1	
2.1.3 Environmental Hazard		

Acute environmental toxicity

:

: Not classified

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

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

2.2 Label Element

Hazard Pictograms



Signal Word	: Danger	
Hazard Statement	: H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H370	Causes damage to organs Central Nervous System.
	H371	May cause damage to organs Nervous System.
	H372	Causes damage to organs Systematic Toxicity,

through prolonged or repeated exposure.

Precautionary Statement			
General Precautions	:	P101	If medical advice is needed, have product container or label at hand.
		P102	Keep out of reach of children.
		P103	Read label before use.
Preventions	:	P264	Wash face, hands and any exposed skin thoroughly after handling.
		P280	Wear protective gloves/protective clothing/eye protection/face protection.
		P272	Contaminated work clothing should not be allowed out of the workplace.
		P260	Do not breathe dust/fume/gas/mist/vapors/spray.
		P270	Do not eat, drink or smoke when using this product.
Responses	:	P302+P352	IF ON SKIN: Wash with plenty of water.
		P321	Specific treatment (see section 4 on this SDS).
		P362+P364	Take off contaminated clothing and wash it before
			reuse.
		P305+P351+	IF IN EYES: Rinse cautiously with water for several
		P338	minutes. Remove contact lenses, if present and easy
		P337+P317	to do. Continue rinsing.
			If eye irritation persists: Get medical help.
		P333+P317	If skin irritation or rash occurs: Get medical help.
		P308+P316	IF exposed or concerned: Get emergency medical help immediately.
		P319	Get medical help if you feel unwell.
Storage	:	P405	Store locked up.
Disposal	÷	P501	Dispose of contents/container to an approved waste
1			disposal plant in accordance with
			local/regional/national/international regulations.

2.3 Other hazards

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

Harmful to aquatic life with long lasting effects.

:

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Use of alcoholic beverages may enhance toxic effects.

Section 3: Composition/Information on Ingredients

	Chemical Name	CAS No.	Concentration (w/w %)
	Not applicable	Not applicable	Not applicable
3.2	Mixtures :		
	Chemical Name	CAS No.	Concentration (w/w %)
	PEG-32	25322-68-3	5 - 10
	CETETH-30	68439-49-6	5 - 10
	STEARETH-2	9005-00-9	1 - 5
	AMMONIUM CHLORIDE	12125-02-9	1 - 5
	BEHENTRIMONIUM CHLORIDE	68607-24-9	1 - 5
	PARAFFIN	8002-74-2	1 - 5
	LANOLIN	8006-54-0	1 - 5
	AMMONIUM HYDROXIDE	1336-21-6	0.1 - 1
	MINERAL OIL	8042-47-5	0.1 - 1
	RESORCINOL	108-46-3	0.1 - 1

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ASCORBIC ACID	50-81-7	0.1 - 1
	71750-79-3,	
AMODIMETHICONE	106842-44-8,	0.1 - 1
	68554-54-1	
ISOPROPYL ALCOHOL	67-63-0	0.1 - 1
POLYQUATERNIUM-4	92183-41-0	0.1 - 1
TOLUENE-2,5-DIAMINE SULFATE	6369-59-1	0.1 - 1
FRAGRANCE	N.A.	0.1 - 1
4-NITRO-0-PHENYLENEDIAMINE	99-56-9	0.1 - 1
SODIUM SULFITE	7757-83-7	0.1 - 1
p-AMINOPHENOL	123-30-8	0.1 - 1

Section 4 : First-aid Measures

4.1 Description of First Aid Measures

Inhalation	: Remove to fresh air. Get medical attention immediately if symptoms occur.
Skin Contact	: Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Eye Contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Seek immediate medical attention/advice.
Ingestion	: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. Call a physician.
4.2 Most Important	Symptoms/Effects
Acute	: Burning sensation, itching, rashes, and/or hives.

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

4.3 Protection for Person who gives First-Aids

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

4.4 Indication of Immediate Medical Attention and Special Treatment Needed Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. May cause sensitization of susceptible persons. Treat symptomatically.

Section 5: Fire-Fighting Measures

5.1 Extinguishing Media		
Suitable Extinguishing Media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Inappropriate Extinguish Media	:	No information available.
5.2 Specific Hazards Arising from	:	Thermal decomposition can lead to release of irritating gases and
the Chemicals		vapors.
5.3 Special Extinguishing Method	:	Sensitivity to mechanical impact: No
		Sensitivity to static discharge: No
5.4 Special Protective Actions for	:	As in any fire, wear self-contained breathing apparatus
Fire-fighter		pressure-demand, MSHA/NIOSH (approved or equivalent) and
		full protective gear.

Section 6: Accidental Release Measures

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.

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Emergency Procedure 6.2 Environmental Precautions	 Evacuate personnel to safe areas. 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 Cont	
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

Occupational Exposure					
Chemical Name	ACGIH TLV	NIOSH IDLH	NIOSH REL	OSHA PEL	
AMMONIUM			TWA: 10 mg/m^3		
CHLORIDE	-	-	ST 20 mg/m ³	-	
			TWA: 400 ppm		
ISOPROPYL	TWA : 200 ppm,	2000 ppm	$(980 \text{ mg/m}^3),$	TWA: 400 ppm	
ALCOHOL	ST : 400 ppm	[10%LEL]	ST: 500 ppm	(980 mg/m^3)	
			(1225 mg/m^3)		
PARAFFIN	-	-	TWA : 2 mg/m^3	-	
			TWA: 10 ppm		
RESORCINOL	_	_	$(45 \text{ mg/m}^3),$	-	
RESORCIVOL	-	-	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.

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

Ene of ficultin 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

section 9. Thysical and Chemical Tropertie	3		
Physical State	:	Solid (Cream)	
Color	:	Yellow to yellowish brown	
Odor	:	Slight characteristic odor	
pН	:	8.7 - 9.7	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	:	15000 - 35000 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 availableChemical Stability: Stable under recommended storage conditions.Possibility of Hazardous Reactions: None under normal processing.

Conditions to Avoid

: None known

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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 :	
AMMONIUM CHLORIDE	LD50(oral, rat) = 1410 mg/kg
AMMONIUM HYDROXIDE	LD50(oral, rat) = 350 mg/kg
BEHENTRIMONIUM	LD50(oral, rat) = 1000 mg/kg
CHLORIDE	
CETETH-30	LD50(oral, rat) = 1260 mg/kg
STEARETH-2	LD50(oral, rat) = 25000 mg/kg
4-NITRO-o-PHENYLENEDIAMI	LD50(oral, rat) = 681 mg/kg
NE	
p-AMINOPHENOL	LD50(oral, rat) = 671 mg/kg
RESORCINOL	LD50(oral, rat) = 301 mg/kg
TOLUENE-2,5-DIAMINE	LD50(oral, rat) = 98 mg/kg
SULFATE	LD50(01a1, 1at) = 50 mg/kg
Skin Corrosion/Irritation :	
AMMONIUM HYDROXIDE	Corrosive (rabbit, 20 % aq. Sol.) (SIDS 2008).
AMODIMETHICONE	Causes skin irritation.
BEHENTRIMONIUM	Corrosive to skin. Low concentration solution (1%) causes skin
CHLORIDE	irritation, and high concentration solutions ($\geq 10\%$) may cause
	inflammation, rash, etc. $(=10,0)$ may equate
CETETII 20	
CETETH-30	Moderate irritation (Draize, Rabbit, RTECS).
FRAGRANCE	No information available
4-NITRO-o-PHENYLENEDIAMI	Irritant.
NE	
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).
RESORCINOL	
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)).
Serious Eye Damage/Irritation :	
AMMONIUM CHLORIDE	Mild irritant on rabbit (ACGIH (7th, 2001)), also moderate
	irritation was observed 10 minutes, 1 hour, and 24 hours after
	application, but redness, edema, and/or corneal opacity were
	recovered within 8 days.
AMMONIUM HYDROXIDE	Corrosive (rabbit, 28.5 % aq. Sol.) (HSDB (Access on June
	2014)).
AMODIMETHICONE	Causes serious eye damage.
BEHENTRIMONIUM	Low concentration solution $(0.1 - 1\%)$ is strongly irritant to
CHLORIDE	eyes, and high concentration solutions ($\geq 10\%$) may cause
	$c_{j}c_{j}$, and man concentration solutions ($\equiv 10/0$) may cause

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CETETU 20	severe burnings with turbidity or angiogenesis.
CETETH-30	Moderate irritation (Draize, Rabbit, RTECS).
FRAGRANCE	No information available
ISOPROPYL ALCOHOL	Mild to strong irritation (rabbit) (EHC, 1990, SIDS, 2002,
	PATTY 6th, 2012, and ECETOC TR48, 1998).
PARAFFIN	Slightly or mild irritant (rabbit, IUCLID, 2000 and RTECS,
PEG-32	Mild irritant (rabbit), but recovered within 24 to 48 hrs.
SODIUM SULFITE	Causes eye irritation. Slight irritation on rabbit eyes.
4-NITRO-0-PHENYLENEDIAMI	No specific information given on the SDS from manufacturer.
NE	
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
DESODCINICI	on May 2017)
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 vlash has developed (ACCIII (7th, 2001)). In addition, the
	ulcer has developed (ACGIH (7th, 2001)). In addition, the
	irritation score is reported as 39.9-56.3 and 105 (maximum
TOLLIENE 25 DIAMINE	value 110) (SIDS (2009), CICAD 71 (2006)).
TOLUENE-2,5-DIAMINE SULFATE	In the test using rabbits, "mild response to conjunctiva" was
	observed (HSDB, 2002).
Respiratory or Skin Sensitization : FRAGRANCE	No information available
4-NITRO-0-PHENYLENEDIAMI	May cause sensitization by skin contact.
NE	May cause sensitization by skill contact.
p-AMINOPHENOL	There was a report causing bronchial asthma (HSDB (Access
p-Amintol HEROE	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).
RESORCINOL	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)).
Germ Cell Mutagenicity :	(00, 021 Comprission) (012 0 (2007), 21 001 (01 20 (2007)).
p-AMINOPHENOL	Negative results were reported by in vivo domestic lethal test
F	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
e s	
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

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	on weight gain at a dose of 500 mg/kg/day. Its offsprings showed increased stillbirth, lower fertility rate and survival rate within first 4 days. (Existing chemical toxicity database of Ministry of Health, Labor and Welfare access on May 2017,
	SIDS 2010, SCCS 2011).
	On the other hand, the developmental toxicity test administered
	a dose mixed feeds to a pregnant rats on 0 to 20th days,
	increase in fetal death after implantation at dose lower than the
	dose showing suppression of weight gain to the mother animals
	was seen, but fetus did not show increase in teratogenesis
	although it showed skeletal morphogenesis and undeveloped renal papilla due to growth retardation (SIDS 2010, Risk
	Assessment by Ministry of the Environment Vol. 5: Temporary
	Hazard Assessment Sheet 2006).
	However, as a result of forced oral administrations during the
	organ formation periods of pregnant rat, the mother animal
	showed suppression of weight gain at does greater than 85
	mg/kg/day and teratogenicity in fetus, such as skeletal
	malformations, asthma, hydrocephalus, at dose of 250
	mg/kg/day (SCCS 2011). A test administered forcefully
	single oral dose to pregnant rats at 11th day of pregnancy
	showed abnormality in their tail at a dose showing the
	suppression of weight gain on mother animals (SIDS 2010,
	Risk Assessment by Ministry of the Environment Vol. 5:
	Temporary Hazard Assessment Sheet 2006). There was a
	report that pregnant hamsters administered showed no teratogenicity by oral administration but external malformation
	such as cerebral aneurysms and ocular or tail malformations
	were seen (SIDS 2010, Patty 6th, 2012, SCCS 2011, Risk
	Assessment by Ministry of the Environment Vol. 5: Temporary
	Hazard Assessment Sheet 2006).
STOT – Single Exposure :	
4-NITRO-o-PHENYLENEDIAMI	May cause respiratory irritation.
NE	
AMMONIUM CHLORIDE	Oral exposure of 1000 mg/kg bw on rat showed breathing
	difficulty, accidia, abnormal posture, and/or stagger symptom
	(SIDS, 2009).
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
PARAFFIN	(2002), EHC 103 (1990)). Wax fume is mild irritant on eyes, nose, and throat
	(PATTY5th, 2001)
	(1711 1 1 Jul, 2001)

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RESORCINOL	This substance has multiple human poisoning cases. After using ointment or cream (50% of this substance, 100 g) for the treatment of skin diseases, methemoglobinemia, cyanosis, convulsions due to loss of consciousness, tremor, convulsion, mydriasis, confusion, amnesia, disorientation were observed. In oral ingestion and percutaneous absorption poisoning cases of infants, burning sensation, convulsions, central nervous system disorder (dizziness, confusion, somnolence, disorientation, disorientation, memory loss, tremor), red blood cell change (methemoglobinemia, hemolytic anemia, hemoglobinuria, cyanosis), etc. were observed (ACGIH (7th, 2001), CICAD 71 (2006), IARC 71 (1999), PATTY (6th, 2012), DFGOT Vol. 20
	(2003)). In experimental animals, in oral administration on rats salivation, hyperexcitability, tachypnea, ptosis, lethargy, abnormal gait, lying position, tremor, dyspnea, tremor, convulsion, sedation, tonic chronic convulsion, cyanosis, etc. were reported (SIDS (2009), ACGIH (7th, 2001), DFGOT Vol. 20 (2003), PATTY (6th, 2012), CICAD 71 (2006)).
STOT – Repeated Exposure	:
AMMONIUM CHLORIDE	Ingestion of ammonium chloride for 6 months showed hospitalization by acidosis (metabolic) due to exhaustion, air hunger, or accelerated respiration and disarray (SIDS 2009, ACGIH 2001). NOAEL = 206 mg/kg bw/day (cow, 112 days) (SIDS, 2009).
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 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 dose 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
A minution II	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 Expo	osure			
Inhalation	: Specific test data for the substance or mixture is not available.			not available.
	May cause irritat	tion of respirator	ry tract.	
Eye contact :	Specific test data	for the substan	ce or mixture is	not available.
	Expected to be a	n irritant based	on components.	Severely
	irritating to eyes.	Cause serious e	eye damage. Ma	y cause burns.
	May cause irreve	ersible damage t	o eyes.	
Skin contact :	Specific test data	for the substan	ce or mixture is	not available.
	Ingestion may ca	use irritation ba	sed on compone	ents. Irritating to
	skin. Prolonged	contact may cau	se redness and in	rritation.
Ingestion :	: Specific test data for the substance or mixture is not available		not available.	
-	Ingestion may ca	use irritation to	mucous membra	anes. Ingestion
	may cause gastro	ointestinal irritat	ion, nausea, von	niting and
	diarrhea. May be	harmful if swal	lowed (based or	n 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, rus	hes and/or
Characteristics	hives.			
Delayed, Immediate, and Chronic :	May cause sensi	tization of susce	ptible persons. N	May cause
Effects from Short and Long Term	sensitization by s			5
Exposure	2			
Carcinogenicity :	The table below	indicates wheth	er each agency h	as listed any
	ingredient as car	cinogen.		-
Chemical Name	ACGIH	IARC	NTP	OSHA

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

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

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

NTP: National Toxicology Program (NA = none assigned, Known = Known to be a human carcinogen, RAHC = Reasonably anticipated to be a human carcinogen) : No information available. Other Information

Section 12: Ecological Information

Toxicity on Aquatic Organisms :	
AMMONIUM CHLORIDE	LC50 (Lepomis macrochirus, 96 hrs.) = 74.2 mg/L (ECETOC
	TR91, 2003)
AMMONIUM HYDROXIDE	LC50 (Mysidopsis bahia, 96 hrs.) = $2.81 - 98.9$ mg total NH ₃ /L
	(SIDS, 2007)
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
RESORCINOL	EC50 (Daphnia magna, 48 hrs.) = 1.28 mg/L
Toxicity on Terrestrial Organisms :	No information available.
Persistence and Degradability :	
BEHENTRIMONIUM CHLORIDE	BOD=0 %

reisistence and Degradability .	
BEHENTRIMONIUM CHLORIDE	BOD = 0 %
MINERAL OIL	Persistent (IUCLID, 2000)

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POLYQUATERNIUM-4	No information available
p-AMINOPHENOL	BOD = 6 %
RESORCINOL	BOD = 66.7%
Bioaccumulative Potential :	
BEHENTRIMONIUM CHLORIDE	Low bioaccumulation
MINERAL OIL	Log Pow > 6 (IUCLID, 2000)
POLYQUATERNIUM-4	No information available
p-AMINOPHENOL	BCF = 46
RESORCINOL	$\log Kow = 0.8$
Mobility in Soil :	No information available.
Other Adverse Effects :	No information available.

Section 13: Disposal Considerations

according to Federal regulation (40 CFR 261). This materia 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	
: No information available.	
: No information available.	
: Dispose of contents/containers in accordance with local regulation (refer to Section 15).	
	 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. No information available. Dispose of contents/containers in accordance with local

Section 14: Transport Information

	DOT/TDG	IATA/ICAO	IMDG/IMO	
UN Number		Not Regulated		
UN Proper Shipping Name	Not Dogulated		Not Doculated	
Transport Hazard Classes	Not Regulated		Not Regulated	
Packing Group				
	.			

DOT: US Department of Transportation

TDG: UN model regulation of Transport of Dangerous Goods

IATA/ICAO: International Air Transport Association/International Civil Aviation Organization

IMDG/IMO: International Maritime Dangerous Goods/International Maritime Organization

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

- Transport in Bulk According to ANNEX : No information available.
- II of MARPOL 73/78 and IBC Code

Section 15: Regulatory Information

8 2		
Safety, Health, and Environmental Regulati	ons	s Specific for the Product
International chemical inventories		1
Toxic substances control act (TSCA)	:	All components of this product are either listed or are exempt on the TSCA inventory.
Domestic Substance list (DSL) <u>US Federal Regulation</u>	:	Substances comply or are exempt.
Title III of the Superfund Amendments and Reauthorization act of 1986	:	Section 313 of Title III of the Superfund Amendments and Reauthorization act of 1986 (SARA). This product contains

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5000 lb (2270 kg)

(SARA 313)

RESORCINOL

a chemical or chemicals which are subject to the reporting requirements of the act and title 40 of the Code of Federal Regulations (CFR), Part 372.

U201

C_{1} \cdots 1 N_{2} \cdots 1			DA 212 TL 11	(0/)
Chemical Name			RA 313 – Threshold	values (%)
AMMONIUM CHLORIDE		1.0	as ammonia	
AMMONIUM HYDROXIDE		1.0	as ammonia	
ISOPROPYL ALCOHOL		1.0)	
SARA 311/312 Hazard Category	:	Acute health haza	rd	No
		Chronic health ha	zard	No
		Fire hazard		No
		Sudden release of	pressure hazard	No
		Reactive hazard	-	No
Clean Water Act (CWA)	:	This product cont	ains the substances v	which are regulated as
		pollutant pursuant	t to the Clean Water	Act (40 CFR 122).
Clean Air Act (CAA)	:	This product does	not contain substand	ce which is regulated
		as pollutant pursu	ant to the Clean Air	Act (40 CFR 50 - 99).
Comprehensive Environmental	:	This material, as s	supplied, contains on	e or more substances
Response Compensation and Liability		regulated as hazar	dous substance unde	er the Comprehensive
Act (CERCLA)		Environmental Response Compensation and Liability Act		
		(40 CFR 302).		-
Hazardous Substance		Statutory Code*	RCRA Waste No.	Final RQ Pounds
AMMONIUM CHLORIDE		1	-	5000 lb (2270 kg)
AMMONIUM HYDROXIDE		1	-	1000 lb (454 kg)
				、 、

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

1,4

"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 CHLORIDE	Х	Х	Х	Х	Х
AMMONIUM HYDROXIDE	Х	Х	Х	-	Х
ISOPROPYL ALCOHOL	Х	Х	Х	Х	-
LANOLIN	-	-	Х	Х	-
MINERAL OIL	Х	Х	Х	Х	-
PARAFFIN	Х	Х	Х	Х	-
RESORCINOL	Х	X	Х	Х	Х

Section 16: Other Information

NFPA (National Fire Protection Association Code)

: Health hazard Flammability hazard

Instability hazard

	Special hazards	-
HMIS (Hazardous Materials	: Health	2
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/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.