**Section 1: Identification** 

Safety Data Sheet

2020/3/31
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Page	1	of 14	
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1.1 Product identification Product identifier	: Mixture
Product name	: PROMASTER(Z) G-6p [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	: 20-0088(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.

			unough protonged of 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
			to do. Continue rinsing.
		P337+P317	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
*			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
	TOLUENE-2,5-DIAMINE SULFATE	6369-59-1	0.1 - 1
	AMMONIUM HYDROXIDE	1336-21-6	0.1 - 1
	RESORCINOL	108-46-3	0.1 - 1

Issue Date: 2020/3/31 Revised Date:

Page 3 of 14

MINERAL OIL	8042-47-5	0.1 - 1
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
FRAGRANCE	N.A.	0.1 - 1
p-AMINOPHENOL	123-30-8	0.1 - 1
4-NITRO-o-PHENYLENEDIAMINE	99-56-9	0.1 - 1
SODIUM SULFITE	7757-83-7	0.1 - 1

#### Section 4 : First-aid Measures

4.1 Description of First Aid Measures

in Detemption of I	
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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Safety Data Sheet
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Emergency Procedure 6.2 Environmental Precautions	: R	Evacuate personnel to safe areas. Refer to protective measures listed in Section 7 and 8. Prevent arther leakage or spillage if safe to do so.
6.3 Methods and Materials for Cont		
For Containment	: P	revent further leakage or spillage if safe to do so.
For Cleaning up	: S	oak up with inert absorbent material. Pick up and transfer to roperly labeled containers.
Other Information	: N	lot available
Section 7: Handling and Storage		
7.1 Precautions for Safe Handling		
General Precautions	g sl	Jse personal protection equipment. Handle in accordance with ood industrial hygiene and safety practice. Avoid contact with kin, eyes or clothing. Take off contaminated clothing and wash efore reuse.
General Hygiene	: D	To not eat, drink or smoke when using this product.
7.2 Conditions for Safe Storage		
General Information		Leep containers tightly closed in a dry, cool and well-ventilated lace. Store locked up. Keep out of the reach of children.
Storage Conditions		Do not store with strong acids, strong oxidizing agents and/or trong bases.
Other Information		lot 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: $10 \text{ mg/m}^3$		
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	$(980 \text{ mg/m}^3)$	
			$(1225 \text{ mg/m}^3)$		
PARAFFIN	-	-	TWA : $2 \text{ mg/m}^3$	-	
			TWA: 10 ppm		
RESORCINOL	_	_	$(45 \text{ mg/m}^3),$	-	
RESORCINOL	-	-	ST: 20 ppm		
			$(90 \text{ mg/m}^3)$		
MINERAL OIL	TWA : 5 mg/m <sup>3</sup> (IHL; excluding metal working fluids, pure highly and severely refined) (For poorly and mildly refined: exposure by all routes should be carefully controlled to levels as low as possible.)	2500 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> , ST 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	

ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold limit value. OSHA PEL: Occupational safety and Health Administration – Permissible Exposure Limits Immediately Dangerous to Life or Health.

Page 5 of 14

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

: Showers
Eyewash station
Ventilation system
: Tight sealing safety goggles.
: Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.
: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
: Not available
: 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	:	8.5 - 9.5	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.

2020/3/31

Page 6 of 14

Conditions to Avoid	: None known
Incompatible Materials	: Oxidative agent and acid materials.
Hazardous Decomposition Products	: Carbon oxides, ammonia, and/or nitrogen oxide.
Section 11: Toxicological Information Information on Toxicological Effects	
Acute Toxicity :	LD50(am1, mat) = 1410 ma/lac
AMMONIUM CHLORIDE	LD50(oral, rat) = $1410 \text{ mg/kg}$
AMMONIUM HYDROXIDE	LD50(oral, rat) = $350 \text{ mg/kg}$
BEHENTRIMONIUM CHLORIDE	LD50(oral, rat) = 1000 mg/kg
CETETH-30	LD50(oral, rat) = $1260 \text{ mg/kg}$
STEARETH-2	LD50(oral, rat) = 1200  mg/kg LD50(oral, rat) = 25000 mg/kg
4-NITRO-0-PHENYLENEDIAMI	LD50(oral, rat) = 25000  mg/kg LD50(oral, rat) = 681 mg/kg
NE	
p-AMINOPHENOL	LD50(oral, rat) = $671 \text{ mg/kg}$
RESORCINOL	LD50(oral, rat) = $301 \text{ mg/kg}$
TOLUENE-2,5-DIAMINE SULFATE	LD50(oral, rat) = 98 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.
CETETH-30	Moderate irritation (Draize, Rabbit, RTECS).
FRAGRANCE	No information available Irritant.
4-NITRO-0-PHENYLENEDIAMI NE	IIIItant.
p-AMINOPHENOL	The skin irritation test using rabbits was reported that mild
P	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	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

CETETH-30

FRAGRANCE

No information available

severe burnings with turbidity or angiogenesis.

Moderate irritation (Draize, Rabbit, RTECS).

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, 2008).
PEG-32	Mild irritant (rabbit), but recovered within 24 to 48 hrs.
SODIUM SULFITE	Causes eye irritation. Slight irritation on rabbit eyes.
4-NITRO-o-PHENYLENEDIAMI	No specific information given on the SDS from manufacturer.
NE	To specific information given on the 5D5 from manufacturer.
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)
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)).
TOLUENE-2,5-DIAMINE	In the test using rabbits, "mild response to conjunctiva" was
SULFATE	observed (HSDB, 2002).
Respiratory or Skin Sensitization :	
FRAGRANCE	No information available
4-NITRO-0-PHENYLENEDIAMI	May cause sensitization by skin contact.
NE	
p-AMINOPHENOL	There was a report causing bronchial asthma (HSDB (Access
RESORCINOL	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). 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 :	
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

Issue Date: 2020/3/31 Revised Date:

Page 8 of 14

STOT – Single Exposure :	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 malformations 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).
4-NITRO-0-PHENYLENEDIAMI NE	May cause respiratory irritation.
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	(SIDS, 2009). 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
ISOPROPYL ALCOHOL	corrosive effects are known for mouth, throat and stomach by oral route (HSDB, 2014). 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)

Issue Date: 20 Revised Date:

e: 2020/3/31 e: Page 9 of 14

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 <sup>3</sup> , and pathologic effect on organs of respiration such as lung and respiratory tract, liver and spleen at 500 mg/m <sup>3</sup> (EHC 103 (1990)).
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	<ul> <li>There is no clear report on humans.</li> <li>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).</li> <li>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 Hazard Assessment Sheet 2006, PATTY 6th 2012).</li> </ul>
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	sure			
Inhalation :	Specific test data	for the substan	ce or mixture is	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			
	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.			
	Ingestion may ca	use irritation to	mucous membr	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 sensit	tization of susce	ptible persons. I	May cause
Effects from Short and Long Term	sensitization by s	skin contact.		
Exposure				
Carcinogenicity :	The table below	indicates whether	er each agency h	nas 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) Other Information : No information available.

#### Section 12: Ecological Information

MINERAL OIL

Section 12. Leological 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 <sub>3</sub> /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.) = $0.1 \text{ mg/L}$
	NOEC (Pseudokirchneriella subcapitata, 72 hrs) = $0.025$ mg/L
RESORCINOL	EC50 (Daphnia magna, 48 hrs.) = $1.28 \text{ mg/L}$
Toxicity on Terrestrial Organisms :	No information available.
Persistence and Degradability :	
BEHENTRIMONIUM CHLORIDE	BOD=0 %

Persistent (IUCLID, 2000)

Issue Date: 202 Revised Date:

2020/3/31	

Page 11 of 14

POLYQUATERNIUM-4 p-AMINOPHENOL	No information available $BOD = 6 \%$
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

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

## **Section 14: Transport Information**

	DOT/TDG	IATA/ICAO	IMDG/IMO			
UN Number		Not Regulated	Not Deculated			
UN Proper Shipping Name	Not Dogulated					
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.

- NNEX : No information available.
- II of MARPOL 73/78 and IBC Code

# Section 15: Regulatory Information

8 2				
Safety, Health, and Environmental Regulations 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		

Issue Date: 2020/3/31 Revised Date: Page 12 of 14

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

Chemical Name		SA	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 pursuan	t to the Clean Water	Act (40 CFR 122).
Clean Air Act (CAA)	:	-		ce which is regulated
				Act (40 CFR 50 - 99).
Comprehensive Environmental	:	This material, as supplied, contains one or more substances		
Response Compensation and Liability		regulated as hazardous substance under 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	X	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.