Issue Date: 2017.3.31 Revised Date:

Page 1 of 13

Section 1: Identification	
1 1 Product identification	

1.1 Product Identification		
Product identifier	:	Mixture
Product name	:	PROMASTER G Creyell 8MG 【Cream 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	:	

Section 2: Hazard Identification

2.1 Classification of the substance or mixture

2.1.1 Physico-Chemical hazard	
2.1.2 Health Hazard	
Acute Toxicity (oral)	: Not classified
Acute Toxicity (inhalation: dusts/mists)	: Not classified
Skin Corrosion/Irritation	: Category 2
Serious Eye Damage/Eye Irritation	: Category 1
Skin Sensitization	: Not classified
Reproductive Toxicity	: Not classified
Specific Target Organ Toxicity (single exposure)	: Category 2
Specific Target Organ Toxicity (repeated exposure)	: Category 2
Aspiration Hazard	: Not classified
2.1.3 Environmental Hazard	

- Hazardous to the Aquatic Environment (acute) : 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. 6.

2.2 Label Element

Label Element Hazard Pictograms		A A
Tiazara Trecogramo		
Signal Word	: Danger	• •
Hazard Statement	: H315	Causes skin irritation.
	H318	Causes serious eye damage.
	H371	May cause damage to organs, respiratory tract, central nervous system.
	H373	May cause damage to organs, systemic
		toxicity, through prolonged or repeated
		exposure.
Precautionary Statement		
General Precautions	: -	-
Preventions	: P260	Do not breathe dusts /fume /gas /mist /vapors /
		spray.

Ref. No.: Ver. 1			Salety D	ata Sheet Revised Date: Page 2 of 13
			P264	Wash face, hands and any exposed skin thoroughly after handling.
			P270	Do not eat, drink or smoke when using this product.
			P280	Wear protective gloves/protective clothing/eye protection/face protection.
	Responses	:	P302+P352	IN ON SKIN: Wash with plenty of water and soap.
			P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
			P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
			P310	Immediately call a POISON CENTER/doctor.
			P314	Get medical advice/attention if you feel unwell.
			P321	Specific treatment (see section 4 on this SDS).
			P332+P313	If skin irritation occurs: Get medical advice/attention.
			P362+P364	Take off contaminated clothing and wash it before reuse.
	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.
A A A A				

2.3 Other hazards

8.85 % 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

3.1 Substance

	Chemical Name	CAS No.	Concentration (w/w %)
	Not applicable	Not applicable	Not applicable
3.2	Mixtures :		

Chemical Name	CAS No.	Concentration (w/w %)
AMMONIUM CHLORIDE	12125-02-9	0.1 – 1
AMMONIUM HYDROXIDE	1336-21-6	1 – 5
	71750-79-3	
AMODIMETHICONE	106842-44-8	0.1 – 1
	68554-54-1	
BEHENTRIMONIUM CHLORIDE	68607-24-9	0.1 – 1
CETETH-6	68439-49-6	1 – 5
HEXYLDECANOL	2425-77-6	0.1 – 1
ISOPROPYL ALCOHOL	67-63-0	0.1 – 1
MINERAL OIL	8042-47-5	0.1 – 1
PEG-32	25322-68-3	5 - 10
PETROLATUM	8009-03-8	1-5
SODIUM CARBONATE	497-19-8	0.1 – 1

Issue Date: 2017.3.31 Revised Date:

Page 3 of 13

SODIUM LAURETH SULFATE	9004-82-4	0.1 – 1
SODIUM SULFITE	7757-83-7	0.1 – 1
2,4-DIAMINOPHENOXYETHANOL HCl	66422-95-5	< 0.1
m-AMINOPHENOL	591-27-5	< 0.1
p-AMINOPHENOL	123-30-8	< 0.1
p-PHENYLENEDIAMINE	106-50-3	< 0.1
RESORCINOL	108-46-3	0.1 - 1
TOLUENE-2,5-DIAMINE	95-70-5	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	t 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	:	CAUTION: Use of water spray when fighting fire may be inefficient.
5.2 Specific Hazards Arising from	:	May produce carbon oxides, ammonia and/or nitrogen oxide.
the Chemicals		
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

6.1 Personal Precautions,	Protective Equipment and	Emergency Procedures
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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

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Safety Data Sheet
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Issue Date: 2017.3.31 Revised Date:

Page 4 of 13

For Containment For Cleaning up Other Information	:	Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Not available
Section 7: Handling and Storage		
7.1 Precautions for Safe Handling		
General Precautions	:	Use personal protection equipment. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.
General Hygiene	:	Do not eat, drink or smoke when using this product.
7.2 Conditions for Safe Storage		
General Information	:	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.
Storage Conditions	:	Do not store with strong acids, strong oxidizing agents and/or strong bases.
Other Information	:	Not available

Section 8: Exposure Controls/Personal Protection

•

8.1 Occupational Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
AMMONIUM CHLORIDE	-	-	TWA: 10 mg/m^3 ST: 20 mg/m^3
ISOPROPYL ALCOHOL	TWA: 200 ppm ST: 400 ppm	TWA: 400 ppm (980 mg/m ³)	TWA: 400 ppm (980 mg/m ³) ST: 500 ppm (1225 mg/m ³) IDLH: 2000 ppm [10 %LEL]
MINERAL OIL	TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³ ST: 10 mg/m ³ IDLH: 2500 mg/m ³
p-PHENYLENEDIAMINE	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³ [skin]	TWA: 0.1 mg/m ³ [skin] IDLH: 25 mg/m ³
RESORCINOL	-	-	TWA: 10 ppm (45 mg/m ³) ST: 20 ppm (90 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
- 8.3 Individual Protection Measures Eye/Face Protection Skin Protection
- Tight sealing safety goggles.
 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,

HANOL HCl

Safety Data Sheet

Issue Date: 2017.3.31 Revised Date:

Page 5 of 13

Thermal Hazard Other Requirements	 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: Physical and Chemical Pro	perties		
Physical State	:	Cream	
Color	:	Milky white	
Odor	:	Characteristic odor	
pH	:	9.6 - 10.6	pH meter (1% aq. sol.)
Melting/Freezing Point	:	No data available	Not known
Initial Boiling Point and Boiling Ran	ge :	No data available	Not known
Flash Point	:	No data available	Not known
Evaporation Rate	:	No data available	Not known
Flammability (Solid, Gas)	:	No data available	Not known
Upper/lower Flammability or Explos	ive :	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	:	5000 – 30000 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 st	orage conditions.
Possibility of Hazardous Reactions	:	None under normal processing	<u>.</u>
Conditions to Avoid	:	None known	
Incompatible Materials	:	Oxidative agent and acid mate	erials.
Hazardous Decomposition Products	:	Carbon oxides, ammonia, and	/or nitrogen oxide.
Section 11: Toxicological Information			
Information on Toxicological Effects			
Acute Toxicity	:		
AMMONIUM CHLORIDE	LD50 (o	ral, rat) = 1410 mg/kg	
AMMONIUM HYDROXIDE		ral, rat) = 350 mg/kg	
CETETH-6		ral, rat) = 1260 mg/kg	
SODIUM CARBONATE		halation: dusts/mists, rat) = 1.2	mg/L
SODIUM LAURETH		ral, rat) = 1600 mg/kg	-
SULFATE			
2,4-DIAMINOPHENOXYET	LD50 (o	ral, rat) = 1000 mg/kg	

Safety Data Sheet Issue Date: Revised Date: Revised Date:

Issue Date: 2017.3.31 Revised Date:

Page 6 of 13

I		Page 6 d	of 13
	m-AMINOPHENOL	LD50 (oral, rat) = 693 mg/kg	
	p-AMINOPHENOL	LD50 (oral, rat) = 375 mg/kg	
		LC50 (inhalation : dusts/mists, rat) = 1.48 mg/L	
	p-PHENYLENEDIAMINE	LD50 (oral, rat) = 80 mg/kg	
	-	LC50 (inhalation: dusts/mists, rat) = 0.92 mg/L	
	RESORCINOL	LD50 (oral, rat) = 301 mg/kg	
	TOLUENE-2,5-DIAMINE	LD50 (oral, rat) = 102 mg/kg	
	Skin Corrosion/Irritation		
	AMMONIUM HYDROXIDE	Corrosive (rabbit, 20 % aq. sol.) (SIDS 2008).	
	AMODIMETHICONE	Weak irritant (rabbit, 500 mg/24 hrs.).	
	BEHENTRIMONIUM	Irritant (rabbit, OECD404).	
	CHLORIDE		
	CETETH-6	Moderate irritant (rabbit, 500 µL/24hrs., Draize).	
	SODIUM LAURETH	HSDB (2002) reported that there are skin irritation and dryness on	1
	SULFATE	human for a prolonged occupational contact and irritation was	
		observed on skin of guinea pig and rabbit.	
	p-AMINOPHENOL	Mild to slightly irritating (rabbit) (RTECS (2006), IUCLID (2000)))
	p-PHENYLENEDIAMINE	Slightly irritant at 2.5 % and moderately irritant at $10 - 50$ % on	
	-	rabbit and its PII was 1.4 – 3.4 (BUA 97, 1995).	
	RESORCINOL	Mild or moderate irritant, PII = 2.8 and 4.4 (rabbit, 24 hrs.) (DFGC	ЪС
		vol. 20, 2003, CICADs No. 71, 2006).	
	TOLUENE-2,5-DIAMINE	Mild irritant (rabbit) (EHC74, 1987 and RTECS, 2002).	
	Serious Eye Damage/Irritation		
	AMMONIUM CHLORIDE	Mild irritant on rabbit (ACGIH (7th, 2001)), also moderate irritation	on
		was observed 10 minutes, 1 hour, and 24 hours after application, b	
		redness, edema, and/or corneal opacity were recovered within 8 da	ays.
	AMMONIUM HYDROXIDE	Corrosive (rabbit, 28.5 % aq. sol.) (HSDB (Access on June 2014))).
	AMODIMETHICONE	Weak irritant (rabbit).	
	BEHENTRIMONIUM	Risk to cause serious eye damage (rabbit, OECD405).	
	CHLORIDE		
	CETETH-6	Moderate irritant (rabbit, 100 µL/24hrs., Draize).	
	HEXYLDECANOL	Slightly irritating (rabbit, IUCLID).	
	ISOPROPYL ALCOHOL	Mild to strong irritation (rabbit) (EHC, 1990, SIDS, 2002, PATTY	,
		6th, 2012, and ECETOC TR48, 1998).	
	PEG-32	Mild irritant (rabbit), but recovered within 24 to 48 hrs.	
	PETROLATUM	Slightly irritating (rabbit) (IUCLID, 2000).	
	SODIUM CARBONATE	Average maximum Draize score (MMTS) of 105 was reported on	
		test using rabbit eye, which shows symptom on cornea, iris and	
		conjunctiva and not recovered fully after 14 days.	
	SODIUM LAURETH	Moderate to severe irritant (rabbit, Draize, 24 hrs.) (RTECS, 1997	
	SULFATE	and RTECS, 1999).	
	SODIUM SULFITE	Mild irritant (rabbit).	
	2,4-DIAMINOPHENOXYET	Strong irritant.	
	HANOL HCl		
	p-AMINOPHENOL	Mild to slightly irritating (rabbit) (RTECS (2006), IUCLID (2000))).
	p-PHENYLENEDIAMINE	Slightly irritant (Draize, rabbit) (BUA 97, 1995).	
	RESORCINOL	Extremely irritation (rabbit) (ACGIH 7th, 2001, CICADs vol. 71,	
		2006).	
	TOLUENE-2,5-DIAMINE	Strong irritant (rabbit) (PATTY 5th, 2001).	
	Respiratory or Skin Sensitization		
	p-AMINOPHENOL	There was a report causing contact dermatitis and bronchial asthm	
		(HSDB, 2003). Listed as sensitizing substance at Japan Society for	r
		Occupational Health.	
	p-PHENYLENEDIAMINE	Listed as sensitizing substance at Japan Society for Occupational	
		Health.	

Page 7 of 13

Positive ratio = 30 - 70 % (guinea pig, Maximization test) (DFGOT RESORCINOL vol. 20, 2003). **TOLUENE-2,5-DIAMINE** Showed sensitizing potential on guinea pigs (EHC74, 1987 and HSDB, 2002). Germ Cell Mutagenicity No information available. : 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 (PATTY6th, 2012 and SIDS(2002)). 2.4-DIAMINOPHENOXYET As a result of oral exposure test on 24 female rat in accordance with OECD 414 showed teratogenicity of fetus at concentration causing HANOL HCl general toxicity (SCCP Report "Opinion on 2,4-Diaminophenoxyetheanol and its salts" (2006/3/28)). Teratogenicity test on rat by oral exposure showed toxicity on parent p-AMINOPHENOL and teratogenicity on its child (PATTY 4th, 1999). **TOLUENE-2,5-DIAMINE** There was a report showing teratosis on face, and exencephalia on baby mice born from female mice which was administered intraperitoneally (EHC74, 1987). STOT – Single Exposure Oral exposure of 1000 mg/kg bw on rat showed breathing difficulty, AMMONIUM CHLORIDE accidia, abnormal posture, and/or stagger symptom (SIDS, 2009). AMMONIUM HYDROXIDE 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). 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). 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)). SODIUM CARBONATE After inhalation of this substance, mice, rat and guinea pig showed breathing disorder for 2 - 4 hours (SIDS, 2008). After oral exposure of this substance, rat showed ataxia, collapse, and lethargy for 5 days (SID, 2008). Nausea, vomiting and diarrhea are observed by ingestion as human SODIUM LAURETH **SULFATE** acute toxic symptom (HSDB, 2002). m-AMINOPHENOL Acute toxicity test (oral) on rat (OECD TG401, GLP) showed occurrence of death at 700 mg/kg and thrill, salivation, brown urine, prone, and decumbence at 500 mg/kg. 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. Causes methemoglobinemia on humans (RATTY 4th, 1999). p-AMINOPHENOL Ingestion of this substance on human showed breathing difficulty and p-PHENYLENEDIAMINE edema on face, neck, tongue and throat, increase of CPK in blood, hypouresis, renal tubular degeneration and rhabdomyolysis. Then, subject caused acute kidney failure and death (DFGMAK-Doc.6, 1994). RESORCINOL After application of cream contain this substance, human subjects

Ver. I	Page 8 of 13
	showed unconsciousness, thrill, spasm, mydriasis, disarray, amnesia, cognitive dysfunction (DFGOT vol. 20, 2003, PATTY 5th, 2001).
	Also, main symptom of resorcinol poisoning is influence on central nervous system (ACGIH 7th, 2001 and DFGOT vol. 20, 2003).
	Furthermore, it showed hemoglobinuria, cyanosis, methemoglobinemia in infants (DFGOT vol. 20, 2003 and PATTY 5th, 2001).
TOLUENE-2,5-DIAMINE	Exposure to this substance caused the liver toxicity and hemolytic anemia (PATTY 5th, 2001).
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).
BEHENTRIMONIUM CHLORIDE	Estimated data from main ingredient on digestive tract.
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 argons of received as lung and received received and
	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).
2,4-DIAMINOPHENOXYET	Repeated administration test for 13 weeks at 0.4, 20, 100 mg/kg/day
HANOL HCl	on rat showed brown pigmentation on thyroid and severe
	thesaurismosis on spleen (SCCP Report "Opinion on
	2,4-Diaminophenoxyetheanol and its salts"(2006/3/28)).
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.
p-AMINOPHENOL	Causes methemoglobinemia which develop toxicity on kidney on humans (RATTY 4th, 1999).
p-PHENYLENEDIAMINE	The regular use of retail hair coloring product containing this substance on humans caused inflammation on liver and spleen and
	developed progressive neurological disorders for 11 weeks and final
	death of subject (ACGIH, 2001). Also, the regular use of retail hair
	coloring product containing this substance showed chronic kidney
	disorder, uremia, minimization of kidney and death of subject
	(DFGMAK-Doc.6, 1994). 90 days oral application test on rabbit at
	10 mg/kg showed edema, swollen muscle fiber, etc. on myocardium
Aspiration Hazard	(ACGIH, 2001).
MINERAL OIL	Inhalation of oil or liquid to ling may cause lipid or chemical
	pneumonia and/or lipid granuloma.
SODIUM LAURETH SULFATE	There is a report on causing edema on upper respiratory tract and breathing difficulties on human due to inhalation (HSDB, 2002).
Information on the Likely Routes of	
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 Ingestion		Specific test data for the substance or mixture is not available. Ingestion may cause irritation based on components. Irritating to skin. Prolonged contact may cause redness and irritation. 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 diarrhea. May be harmful if
Symptoms related to the Physical, Chemical and Toxicological Characteristics Delayed, Immediate, and Chronic Effects from Short and Long Term Exposure Carcinogenicity	:	swallowed (based on components). Erythema (skin redness). May cause redness and tearing of the eyes. May cause blindness. Burning, itching, rushes and/or hives. May cause sensitization of susceptible persons. May cause sensitization by skin contact. The table below indicates whether each agency has listed any ingredient as carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
ISOPROPYL ALCOHOL	A4	Group 3	-	-
MINERAL OIL	-	Group 3	-	-
p-PHENYLENEDIAMINE	A4	Group 3	-	-
RESORCINOL	A4	Group 3	-	-
TOLUENE-2,5-DIAMINE	-	Group 3	-	-

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

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

NTP: National Toxicology Program (NA = none assigned, Known = Known to be a human carcinogen, RAHC = Reasonably anticipated to be a human carcinogen)

Other Information

: No information available.

Section 12: Ecological Information

Toxicity on Aquatic Organisms	:
AMMONIUM 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	LC50 (Danio rerio, 96 hrs., OECD 203) = 0.5 mg/L
CHLORIDE	EC50 (Daphnia magna, 21 days, OECD 211) = 0.13 mg/L
	EC50 (Desmodesmus subspicatus, 72 hrs., OECD 201) = 3.4 mg/L
	NOEC (Artificial soil, 54 days, Eisenia foetida, OECD 222) = 250 mg/kg
	NOEC (Bottom sediment DW, Lubriculus variegatus, 28 days, OECD
	225) = 169 mg/kg
SODIUM LAURETH	EC50 (Ceriodaphnia quadrangular, 48 hrs.) = 3.12 mg/L (AQUIRE,
SULFATE	2008)
m-AMINOPHENOL	EC50 (Daphnia magna, 48 hrs.) = 0.447 mg/L
	NOEC (Daphnia magna, 21 days) = 0.050 mg/L
p-AMINOPHENOL	ErC50 (Selenastrum, 72 hrs.) = 0.1 mg/L
p-PHENYLENEDIAMINE	LC50 (Oryzias latipes, 96 hrs.) = 0.066 mg/L
	NOEC (Daphnia magna, 21 days) = 0.043 mg/L
RESORCINOL	EC50 (Daphnia magna, 48 hrs.) = 1.28 mg/L
Toxicity on Terrestrial Organisms	s : No information available.
Persistence and Degradability	:

Issue Date: 2017.3.31 Revised Date:

Page 10 of 13

BEHENTRIMONIUM	80 % (28 days, OECD 301B)				
CHLORIDE					
MINERAL OIL	Persistent (IUCLID, 2000)				
SODIUM LAURETH	Acute environmental toxicity was classified as category 2 and there are				
SULFATE	no rapid degradability reported.				
m-AMINOPHENOL	Persistent (BOD = 0%)				
p-AMINOPHENOL	BOD = 6%				
p-PHENYLENEDIAMINE	BOD = 5 %				
Bioaccumulative Potential	:				
BEHENTRIMONIUM	Low				
CHLORIDE	Log Koc = 3 - 5.7				
	Log Pow < 3				
MINERAL OIL	Log Pow > 6 (IUCLID, 2000)				
p-AMINOPHENOL	BCF = 46				
Mobility in Soil	: No information available.				
Other Adverse Effects	: No information available.				
Section 13: Disposal Consideration	ns				
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 Infor					

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	IATA/ICAO	IMDG/IMO					
UN Number								
UN Proper Shipping Name	Not Regulated	Not Regulated	Not Regulated					
Transport Hazard Classes	Not Regulated							
Packing Group								
DOT: US Department of Transport	DOT: US Department of Transportation							
	IATA/ICAO: International Air Transport Association/International Civil Aviation Organization							
IMDG/IMO: International Maritim	ne Dangerous Goods/Int	ernational Maritime Orga	nization					
Environmental Hazards	Environmental Hazards : No information available.							
Special Precautions for User : No information available.								
Transport in Bulk According to ANNEX : No information available.								
II of MARPOL 73/78 and IBC Code								
Section 15: Regulatory Information								
Safety, Health, and Environmental	Regulations Specific fo	r the Product						
International chemical inventori	ies							
Toxic substances control act (TS	SCA) : All compo	nents of this product are of	either listed or are					
	1	the TSCA inventory.						
Domestic Substance list (DSL)	: Substances	comply or are exempt.						
US Federal Regulation								
Title III of the Superfund Amen	dments : Section 31	3 of Title III of the Super	fund Amendments and					

Issue Date: 2017.3.31 Revised Date:

Page 11 of 13

and Reauthorization act of 1986 (SARA 313)

Reauthorization act of 1986 (SARA). This product contains 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.

Chemical Name			SARA 313 – Threshold	l values (%)
AMMONIUM CHLORIDE			1.0 as ammonia	
AMMONIUM HYDROXIDE			1.0 as ammonia	
ISOPROPYL ALCOHOL			1.0	
p-PHENYLENEDIAMINE			1.0	
SARA 311/312 Hazard Category	:	Acute health	hazard	No
		Chronic healt	th hazard	No
		Fire hazard		No
		Sudden relea	se of pressure hazard	No
		Reactive haza	ard	No
Clean Water Act (CWA)	:		contains the substances v suant to the Clean Water	
Clean Air Act (CAA)	:	1	contains the substances v suant to the Clean Air Ac	e
Comprehensive Environmental	:		, as supplied, contains or	
Response Compensation and Liability Act (CERCLA)		U	nazardous substance unde al Response Compensati).	1

Hazardous Substance	Statutory Code*	RCRA Waste No.	Final RQ Pounds
AMMONIUM CHLORIDE	1	-	5000 lb (2270 kg)
AMMONIUM HYDROXIDE	1	-	1000 lb (454 kg)
p-PHENYLENEDIAMINE	3	-	5000 lb (2270 kg)
RESORCINOL	1,4	U201	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.

California Hazardous Waste Code
X, C
X, I
Х

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	-
MINERAL OIL	Х	Х	Х	Х	-
p-PHENYLENEDIAMINE	Х	X	Х	X (Skin)	X
RESORCINOL	Х	Х	Х	Х	Х

Issue Date: 2017.3.31 Revised Date:

Page 12 of 13

Section 16: Other Information

cenon for 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
ЪĆ		-	

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
 - 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

PROMASTER G Creyell 8MG Ref. No.: Ver. 1

Safety Data Sheet

Issue Date: 2017.3.31 Revised Date:

Page 13 of 13

be valid for such material used in combination with any other materials or in any process, unless specified in the text.