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Sectio	n 1:	Iden	tificat	tion
1 1	Drog	Junet i	dontif	ination

1.1 Product identification		
Product identifier	:	Mixture
Product name	:	PROMASTER G Creyell 6WB [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
Respiratory Sensitization	: Not classified
Skin Sensitization	: Category 1
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

aber Element		
Hazard Pictograms		
Signal Word	: Danger	•
Hazard Statement	: H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	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		··· F · · ··· ·
General Precautions	: -	-

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	Preventions	: P260	Do not breathe dusts /fume /gas /mist /vapors / spray.
		P264	Wash face, hands and any exposed skin thoroughly after handling.
		P270	Do not eat, drink or smoke when using this product.
		P272	Contaminated work clothing should not be allowed out of the workplace.
		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).
		P333+P313	If skin irritation or rash 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.
0.1			

2.3 Other hazards

8.74 % 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
2 Mixtures :		

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

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PEG-32	25322-68-3	5 - 10
PETROLATUM	8009-03-8	1 – 5
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
4-AMINO-2-HYDROXYTOLUENE	2835-95-2	< 0.1
m-AMINOPHENOL	591-27-5	0.1 – 1
p-AMINOPHENOL	123-30-8	0.1 – 1
p-PHENYLENEDIAMINE	106-50-3	0.1 – 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 Sy	mptoms/Effects
Acute	: Burning sensation, itching, rashes, and/or hives.
Delayed	: Burning sensation, itching, rashes, and/or hives.
A 3 Protection for Pers	on who gives First-Aids

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 the Chemicals	:	May produce carbon oxides, ammonia and/or nitrogen oxide.
5.3 Special Extinguishing Method	:	Sensitivity to mechanical impact: No Sensitivity to static discharge: No
5.4 Special Protective Actions for Fire-fighter	:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures			
Protective Equipment	:	Refer to protective measures listed in Section 7 and 8. Prevent	
		further leakage or spillage if safe to do so.	
Appropriate Procedure	:	Avoid contact with skin, eyes or clothing. Ensure adequate	
		ventilation. Use personal protective equipment as required.	
Emergency Procedure	:	Evacuate personnel to safe areas.	

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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 Cont	tainn	0 1 0
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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
			TWA: 10 mg/m^3
AMMONIUM CHLORIDE	-	-	ST: 20 mg/m^3
			TWA: 400 ppm
			(980 mg/m^3)
ICODDODVI ALCOHOL	TWA: 200 ppm	TWA: 400 ppm	ST: 500 ppm
ISOPROPYL ALCOHOL	ST: 400 ppm	(980 mg/m^3)	(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
	TWA: 0.1 mg/m^3	e	[skin]
		[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

Skin Protection

:	Snowers
	Eyewash station
	Ventilation system

8.3 Individual Protection Measures Eye/Face Protection

: Tight sealing safety goggles.

: Wear protective gloves and protective clothing. Long sleeved

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Respiratory Protection	 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.
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

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	се .	: No data available Not known : No data available Not known		
Flash Point	<u>е</u> с .	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		No data available	Not known	
Limits		No data avallable	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	
	•	5000 – 30000 mPa•s	Type B viscometer	
Viscosity	•	5000 – 50000 mPa•s	51	
Vinatia vigaagity		No dote evoilable	(No. 4 rotor/12 rpm/1 min) Not known	
Kinetic viscosity		No data available		
Particle characteristics	:	No data available	Not known	
Explosive property	:	No data available Not known		
Oxidizing property	:	: No		
VOC contents (%)	:	: No data available		
Other Information	:	: No information available		
Section 10: Stability and Reactivity				
Reactivity	:	No data available		
Chemical Stability		Stable under recommended storage conditions.		
Possibility of Hazardous Reactions	:	: None under normal processing.		
Conditions to Avoid	:	: None known		
Incompatible Materials	:	Oxidative agent and acid mate	erials.	
Hazardous Decomposition Products	:	Carbon oxides, ammonia, and		
Section 11: Toxicological Information				
Information on Toxicological Effects				
Acute Toxicity	:			
AMMONIUM CHLORIDE	LD50 (oral, rat) = 1410 mg/kg			
AMMONIUM HYDROXIDE	E LD50 (oral, rat) = 350 mg/kg			
CETETH-6	LD50 (or	ral, rat) = 1260 mg/kg		
SODIUM LAURETH	LD50 (or	ral, rat) = 1600 mg/kg		
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2,4-DIAMINOPHENOXYET HANOL HCI	LD50 (oral, rat) = 1000 mg/kg
m-AMINOPHENOL	LD50 (oral, rat) = 693 mg/kg
p-AMINOPHENOL	LD50 (oral, rat) = 375 mg/kg
p mini (of min(of	LC50 (inhalation: dusts/mists, rat) = 1.48 mg/L
• DHENYI ENEDIAMINE	LD50 (oral, rat) = 80 mg/kg
p-PHENYLENEDIAMINE	
	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	
	Madamata invitant (malthit 500 vI /241 ma During)
CETETH-6	Moderate irritant (rabbit, 500 µL/24hrs., Draize).
SODIUM LAURETH	HSDB (2002) reported that there are skin irritation and dryness on
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
<u>r</u>	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.) (DFGOT
RESORCHVOE	vol. 20, 2003, CICADs No. 71, 2006).
TOLLIENE 25 DIAMINE	
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
	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	Weak irritant (rabbit).
BEHENTRIMONIUM	Risk to cause serious eye damage (rabbit, OECD405).
CHLORIDE	Risk to eause serious eye aunage (rabon, offen 105).
	Madanata invitant (nabbit 100 vI /24bna Draina)
CETETH-6	Moderate irritant (rabbit, 100 μ L/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 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.
	Strong mittant.
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	
4-AMINO-2-HYDROXYTO	Very week sensitizer (human, patch).
LUENE	i i j i eok sensitizer (nuniun, puten).
	There was a report solution contact domesticia and broughist
p-AMINOPHENOL	There was a report causing contact dermatitis and bronchial asthma
	(HSDB, 2003). Listed as sensitizing substance at Japan Society for
	Occupational Health.
p-PHENYLENEDIAMINE	Listed as sensitizing substance at Japan Society for Occupational

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RESORCINOL	Health. Positive ratio = $30 - 70$ % (guinea pig, Maximization test) (DFGOT
RESORCIVOE	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
HANOL HCI	OECD 414 showed teratogenicity of fetus at concentration causing general toxicity (SCCP Report "Opinion on 2,4-
	Diaminophenoxyetheanol and its salts"(2006/3/28)).
p-AMINOPHENOL	Teratogenicity test on rat by oral exposure showed toxicity on parent 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	
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	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 LAURETH SULFATE	Nausea, vomiting and diarrhea are observed by ingestion as human 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
p-AMINOPHENOL	and dark brown of kidney at 700 and 1000 mg/kg. Causes methemoglobinemia on humans (RATTY 4th, 1999).
p-PHENYLENEDIAMINE	Ingestion of this substance on human showed breathing difficulty and
	edema on face, neck, tongue and throat, increase of CPK in blood,
	hypouresis, renal tubular degeneration and rhabdomyolysis. Then,
	subject caused acute kidney failure and death (DFGMAK-Doc.6,
	1994).
RESORCINOL	After application of cream contain this substance, human subjects
	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
	riso, main symptom of resolution poisoning is influence off central

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	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 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 HANOL HCl	Repeated administration test for 13 weeks at 0.4, 20, 100 mg/kg/day 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
p-AMINOPHENOL	hemosiderosis and hemolyzing property on spleen, liver and kidney. 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 (ACGIH, 2001).
Aspiration Hazard	
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
Eye contact	 available. May cause irritation of respiratory tract. 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
Skin contact	 cause burns. May cause irreversible damage to eyes. 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

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Ingestion	:	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 swallowed (based on components).
Symptoms related to the Physical, Chemical and Toxicological Characteristics Delayed, Immediate, and Chronic Effects from Short and Long Term Exposure Carcinogenicity	:	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) : 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	: :
BEHENTRIMONIUM CHLORIDE	80 % (28 days, OECD 301B)
MINERAL OIL	Persistent (IUCLID, 2000)

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SODIUM LAURETH SULFATE m-AMINOPHENOL p-AMINOPHENOL p-PHENYLENEDIAMINE	Acute environmental toxicity was classified as category 2 and there are no rapid degradability reported. Persistent (BOD = 0 %) BOD = 6 % 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 Consideratio	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 Inform Sewage Disposal-Relevant Inform Other Disposal Recommendation	mation:No information available.mation:No information available.		

Section 14: Transport Information

	DOT	IATA/ICAO	IMDG/IMO	
UN Number		Not Doorlots d		
UN Proper Shipping Name	Not Doculated		Nat Damilata J	
Transport Hazard Classes	Not Regulated	Not Regulated	Not Regulated	
Packing Group	7			

DOT: US Department of Transportation

IATA/ICAO: International Air Transport Association/International Civil Aviation Organization IMDG/IMO: International Maritime Dangerous Goods/International Maritime Organization Environmental Hazards : No information available.

Environmental Hazards: No infSpecial Precautions for User: No inf

: No information available.

Transport in Bulk According to ANNEX : No information available.

II of MARPOL 73/78 and IBC Code

Section 15: Regulatory Information

section for negative y information		
Safety, Health, and Environmental Regulat	ions	s Specific for the Product
International chemical inventories		
Toxic substances control act (TSCA)	:	All components of this product are either listed or are exempt on the TSCA inventory.
Domestic Substance list (DSL)	:	Substances comply or are exempt.
US Federal Regulation		
Title III of the Superfund Amendments	:	Section 313 of Title III of the Superfund Amendments and
and Reauthorization act of 1986		Reauthorization act of 1986 (SARA). This product contains
(SARA 313)		a chemical or chemicals which are subject to the reporting requirements of the act and title 40 of the Code of Federal

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		Regulations (CFR)), Part 372.			
Chemical Name	SA	SARA 313 – Threshold values (%)				
AMMONIUM CHLORIDE		1.0 as ammonia				
AMMONIUM HYDROXIDE		1.0	1.0 as ammonia			
ISOPROPYL ALCOHOL		1.0				
p-PHENYLENEDIAMINE		1.0				
SARA 311/312 Hazard Category	:	Acute health hazar	ď	Yes		
6 7		Chronic health haz	ard	No		
		Fire hazard		No		
		Sudden release of	pressure hazard	No		
		Reactive hazard	-	No		
Clean Water Act (CWA)	:	This product conta	ins the substances	which are r	egulated as	
		pollutant pursuant	to the Clean Water	Act (40 CF	FR 122).	
Clean Air Act (CAA)	:	This product conta	ins the substances	which are r	egulated as	
		pollutant pursuant	to the Clean Air Ad	et (40 CFR	50 - 99).	
Comprehensive Environmental	· · ·				substances	
Response Compensation and Liability regulated as hazard						
Act (CERCLA)		Environmental Response Compensation and Liability Act				
		(40 CFR 302).				
Hazardous Substance		Statutory Code*	RCRA Waste No	Final F	Q 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		(2270 kg)	
	"Statutory (Code" column indicates the statutory source for design				
each substance as a CERCLA has			cutos the statutory		esignating	
"1" indicates that the statutory so			e Clean Water Act.			
"2" indicates that the source is se						
"3" indicates that the source is se						
"4" indicates that the source is se			· · · · · · · · · · · · · · · · · · ·	covery Act	(RCRA).	
US State Regulations				5		
California Hazardous Waste Cod	e :	135 (unspecified a	queous solution)			
This product contains one or mor				ornia as haz	zardous	
waste.						
Chemical Name	California	California Hazardous Waste Code				
AMMONIUM HYDROXIDE	X, C	X, C				
ISOPROPYL ALCOHOL	X, I					
p-PHENYLENEDIAMINE	X					
California Hazardous Waste Cod	e: X – Toxic	. C – Corrosive, I	– Ignitable, R - rea	ctive		
California Proposition 65			not contain any Pro		5 chemicals.	
US State Right-to-Know Regulat		1	5	1		
- 0	1		[[Dhada		
Chemical name	New	Massachusetts	Pennsylvania	Rhode	Illinois	
	Jersey	v	-	Island	v	
AMMONIUM CHLORIDE	X	X	X	Х	X	
AMMONIUM HYDROXIDE	X	X	X	-	X	
ISOPROPYL ALCOHOL	Х	X	X	X	-	

Section 16: Other Information

MINERAL OIL

RESORCINOL

NFPA (National Fire Protection Association Code)

p-PHENYLENEDIAMINE

: Health hazard Flammability hazard

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X (Skin)

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	Instability hazard	0
	Special hazards	COR
HMIS (Hazardous Materials	: Health	3
Identification System)	Flammability	0
- ,	Physical hazard	0
	Personal protection	Х
Reference		

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