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Section 1: Identification

1.1 Product identification

Product identifier : Mixture

Product name : PROMASTER(Z) N-8p [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 : 20-0067(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 2 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.

H371 May cause damage to organs Nervous System.

H372 Causes damage to organs Systematic Toxicity, through prolonged or repeated exposure.

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Precautionary	Statement
1 iccautionary	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 Wash face, hands and any exposed skin thoroughly P264

after handling.

Wear protective gloves/protective clothing/eye P280

protection/face protection.

P272 Contaminated work clothing should not be allowed

out of the workplace.

Do not breathe dust/fume/gas/mist/vapors/spray. P260

P270 Do not eat, drink or smoke when using this product.

Responses P302+P352 IF ON SKIN: Wash with plenty of water.

> Specific treatment (see section 4 on this SDS). P321 Take off contaminated clothing and wash it before P362+P364

> > 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.

Get medical help if you feel unwell. P319

Storage P405 Store locked up.

Disposal Dispose of contents/container to an approved waste P501

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

3.1 Substance

Not applicable Not applicable Not applicable	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
LANOLIN	8006-54-0	1 - 5
PARAFFIN	8002-74-2	1 - 5
AMMONIUM HYDROXIDE	1336-21-6	0.1 - 1
MINERAL OIL	8042-47-5	0.1 - 1
TOLUENE-2,5-DIAMINE SULFATE	6369-59-1	0.1 - 1
AMODIMETHICONE	71750-79-3,	0.1 - 1

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	106842-44-8, 68554-54-1	
ASCORBIC ACID	50-81-7	0.1 - 1
ISOPROPYL ALCOHOL	67-63-0	0.1 - 1
POLYQUATERNIUM-4	92183-41-0	0.1 - 1
FRAGRANCE	N.A.	0.1 - 1
RESORCINOL	108-46-3	0.1 - 1
p-AMINOPHENOL	123-30-8	0.1 - 1
SODIUM SULFITE	7757-83-7	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.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 Eye Contact

> 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

the Chemicals

Thermal decomposition can lead to release of irritating gases and

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

Refer to protective measures listed in Section 7 and 8. Prevent Protective Equipment

further leakage or spillage if safe to do so.

Avoid contact with skin, eyes or clothing. Ensure adequate Appropriate Procedure

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

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further leakage or spillage if safe to do so.

6.3 Methods and Materials for Containment and Cleaning up

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	NIOSH IDLH	NIOSH REL	OSHA PEL
AMMONIUM			TWA: 10 mg/m ³	
CHLORIDE	-		$ST 20 \text{ mg/m}^3$	_
			TWA: 400 ppm	
ISOPROPYL	TWA: 200 ppm,	2000 ppm	$(980 \text{ mg/m}^3),$	TWA: 400 ppm
ALCOHOL	ST: 400 ppm	[10%LEL]	ST: 500 ppm	(980 mg/m^3)
			(1225 mg/m^3)	
PARAFFIN	-	-	TWA: 2 mg/m^3	-
			TWA: 10 ppm	
RESORCINOL	_	_	$(45 \text{ mg/m}^3),$	_
RESORCHIOL	_	_	ST: 20 ppm	_
			(90 mg/m^3)	
MINERAL OIL	TWA: 5 mg/m³ (IHL; excluding metal working fluids, pure highly and severely refined) (For poorly and mildly refined: exposure by all routes should be carefully controlled to levels as low as possible.)	2500 mg/m^3	TWA: 5 mg/m ³ , ST 10 mg/m ³	TWA: 5 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold limit value.

OSHA PEL: Occupational safety and Health Administration – Permissible Exposure Limits Immediately Dangerous to Life or Health.

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

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8.2 Engineering Controls : Showers

Eyewash station Ventilation system

8.3 Individual Protection Measures

Eye/Face Protection : Tight sealing safety goggles.

Skin Protection : Wear protective gloves and protective clothing. Long sleeved

clothing. Impervious gloves.

Respiratory Protection : No protective equipment is needed under normal use conditions. If

exposure limits are exceeded or irritation is experienced,

ventilation and evacuation may be required.

Thermal Hazard : Not available

Other Requirements : Handle in accordance with good industrial hygiene and safety

practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately

after handling the products.

Section 9: Physical and Chemical Properties

Physical State : Solid (Cream)

Color : White to yellowish white Odor : Slight characteristic odor

pH : 8.3 - 9.3 pH meter (1% aq. sol.)

Melting/Freezing Point : No data available Not known Initial Boiling Point and Boiling Range : No data available Not known Flash Point : No data available Not known Evaporation Rate : No data available Not known Flammability (Solid, Gas) : Not meet a criteria under Not known

burning rate test by judging

from the product

composition

Upper/lower Flammability or Explosive : No data available

Limits

Vapor Pressure No data available Not known Density No data available Not known Relative Vapor Density No data available Not known Completely soluble in water Solubility Not known No data available Partition Coefficient: n-octanol/water 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)

Not known

Kinetic viscosity : No data available Not known Particle characteristics : No data available Not known Explosive property : No data available Not known

Oxidizing property : No

VOC contents (%) : No data available
Other Information : No information available

Section 10: Stability and Reactivity

Reactivity : No data available

Chemical Stability : Stable under recommended storage conditions.

Possibility of Hazardous Reactions : None under normal processing.

Conditions to Avoid : None known

Incompatible Materials : Oxidative agent and acid materials.

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Hazardous Decomposition Products : Carbon oxides, ammonia, and/or nitrogen oxide.

Section 11: Toxicological Information

Information on Toxicological Effects

Acute Toxicity

CETETH-30 LD50(oral, rat) = 1260 mg/kgSTEARETH-2 LD50(oral, rat) = 25000 mg/kgAMMONIUM CHLORIDE LD50(oral, rat) = 1410 mg/kgBEHENTRIMONIUM LD50(oral, rat) = 1000 mg/kg

CHLORIDE

AMMONIUM HYDROXIDE LD50(oral, rat) = 350 mg/kg TOLUENE-2,5-DIAMINE LD50(oral, rat) = 98 mg/kg

SULFATE

RESORCINOL LD50(oral, rat) = 301 mg/kgp-AMINOPHENOL LD50(oral, rat) = 671 mg/kg

Skin Corrosion/Irritation

CETETH-30 Moderate irritation (Draize, Rabbit, RTECS).

BEHENTRIMONIUM Corrosive to skin. Low concentration solution (1%) causes skin

CHLORIDE irritation, and high concentration solutions(≥10%) may cause

inflammation, rash, etc.

AMMONIUM HYDROXIDE Corrosive (rabbit, 20 % aq. Sol.) (SIDS 2008).

AMODIMETHICONE Causes skin irritation. FRAGRANCE No information available

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)).

p-AMINOPHENOL The skin irritation test using rabbits was reported that mild

edema was induced 24 hours after application and recovered within 72 hours (primary stimulation score 0.2 (maximum value 8)) (SIAP 2010, HSDB Access on May 2017).

Serious Eye Damage/Irritation

PEG-32 Mild irritant (rabbit), but recovered within 24 to 48 hrs. CETETH-30 Moderate irritation (Draize, Rabbit, RTECS).

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.

BEHENTRIMONIUM Low concentration solution (0.1 - 1%) is strongly irritant to CHLORIDE eves and high concentration solutions $(\ge 10\%)$ may cause

eyes, and high concentration solutions ($\ge 10\%$) may cause severe burnings with turbidity or angiogenesis.

PARAFFIN Slightly or mild irritant (rabbit, IUCLID, 2000 and RTECS,

2008).

AMMONIUM HYDROXIDE Corrosive (rabbit, 28.5 % ag. Sol.) (HSDB (Access on June

2014)).

TOLUENE-2,5-DIAMINE In the test using rabbits, "mild response to conjunctiva" was

SULFATE observed (HSDB, 2002).

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AMODIMETHICONE ISOPROPYL ALCOHOL Causes serious eye damage.

Mild to strong irritation (rabbit) (EHC, 1990, SIDS, 2002,

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

FRAGRANCE No information available

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)).

SODIUM SULFITE p-AMINOPHENOL Causes eye irritation. Slight irritation on rabbit eyes. 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)

Respiratory or Skin Sensitization

FRAGRANCE RESORCINOL

p-AMINOPHENOL

No information available

There was a report that the positive rate was seen to be 30% or more in skin sensitization test using guinea pig (OECD TG 406, GLP compliant) (SIDS (2009), DFGOT vol. 20 (2003)). There was a report causing bronchial asthma (HSDB (Access on May 2017). It is stated that this substance is contained in hair dve 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).

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) No information available

Carcinogenicity

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)).

In a simple reproductive toxicity test by forced oral p-AMINOPHENOL

> administration using rats, death of parental animals was seen (male 4/12 and female 2/12). Regression stop of sex cycle, extension of gestation periods, poor delivery rate and nursing behaviors were seen in parental rats that showed suppression on weight gain at a dose of 500 mg/kg/day. Its offsprings showed increased stillbirth, lower fertility rate and survival rate within first 4 days. (Existing chemical toxicity database of Ministry of Health, Labor and Welfare access on May 2017.

SIDS 2010, SCCS 2011).

On the other hand, the developmental toxicity test administered a dose mixed feeds to a pregnant rats on 0 to 20th days. increase in fetal death after implantation at dose lower than the dose showing suppression of weight gain to the mother animals was seen, but fetus did not show increase in teratogenesis

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although it showed skeletal morphogenesis and undeveloped renal papilla due to growth retardation (SIDS 2010, Risk Assessment by Ministry of the Environment Vol. 5: Temporary Hazard Assessment Sheet 2006).

However, as a result of forced oral administrations during the organ formation periods of pregnant rat, the mother animal showed suppression of weight gain at does greater than 85 mg/kg/day and teratogenicity in fetus, such as skeletal malformations, asthma, hydrocephalus, at dose of 250 mg/kg/day (SCCS 2011). A test administered forcefully single oral dose to pregnant rats at 11th day of pregnancy showed abnormality in their tail at a dose showing the suppression of weight gain on mother animals (SIDS 2010, Risk Assessment by Ministry of the Environment Vol. 5: Temporary Hazard Assessment Sheet 2006). There was a report that pregnant hamsters administered showed no teratogenicity by oral administration but external malformation such as cerebral aneurysms and ocular or tail malformations were seen (SIDS 2010, Patty 6th, 2012, SCCS 2011, Risk Assessment by Ministry of the Environment Vol. 5: Temporary Hazard Assessment Sheet 2006).

STOT – Single Exposure AMMONIUM CHLORIDE

Oral exposure of 1000 mg/kg bw on rat showed breathing difficulty, accidia, abnormal posture, and/or stagger symptom (SIDS, 2009).

AMMONIUM HYDROXIDE

There is known neurological effect due to oral and dermal exposure, which normally limited to blurred vision on topically applied region, but severe exposure causes increase in concentration of blood ammonia, attack, coma, nonspecific diffuse brain disorder, loss in muscle strength, decreased deep tendon reflex, loss of consciousness, and death (ATSDR, 2004). This substance has a respiratory irritation and causes severe irritation and pain on airway mucosa. Also, severe corrosive effects are known for mouth, throat and stomach by oral route (HSDB, 2014).

ISOPROPYL ALCOHOL

This substance showed systematic hazardous effect including the central nervous depression such as lethargy, coma and respiratory depression, irritation on the alimentary canal, effect on the circulatory system such as blood pressure, body temperature decrease, and abnormal cardiac rhythm (SIDS (2002), EHC 103 (1990)).

PARAFFIN

Wax fume is mild irritant on eyes, nose, and throat

(PATTY5th, 2001)

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

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(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, evanosis, 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/m³, and pathologic effect on organs of respiration such as lung and respiratory tract, liver and spleen at 500 mg/m³ (EHC 103 (1990)).

MINERAL OIL

Effects on liver and mesenteric node by repeated oral exposure

test using rat (IUCLID, 2000) and on lung due to aerosol

exposure on rat (US HPVIS, 2011).

p-AMINOPHENOL

There is no clear report on humans.

In the 28-day repeated dose toxicity study by oral gavage using rats, brown urine, urinary sediment epithelial cells, absolute and relative weight values of kidney, basophilic tubule were seen at 100 mg/kg/day which is equivalent to 31 mg/kg/day for 90-day study, and lower red blood cells, hematocrit value and hemoglobin concentration, a high value of reticulocyte count, a

liver weight increase, a white streak at the kidney

corticosterum, spleen extramedullary hematopoiesis, and spleen hemosiderin pigment were seen at 500 mg/kg/day which is equivalent to 156 mg/kg/day for 90-day study (Existing chemical toxicity database of Ministry of Health, Labor and Welfare access on May 2017, SIDS 2010, Ministry of the Environment Risk Assessment Vol. 5: Temporary Hazard

Assessment Sheet 2006).

In addition, in a 6-month repeated oral does toxicity study using rats, nephropathy was sheen at dose greater than 35 mg/kg/day and suppression of weight gain, decrease in number of red blood cells and concentration of hemoglobin (Ministry of the Environment Risk Assessment Volume 5: Temporary Hazard Assessment Sheet 2006, PATTY 6th 2012).

Aspiration Hazard

MINERAL OIL

Inhalation of oil or liquid to lung may cause lipid or chemical

pneumonia and/or lipid granuloma.

Information on the Likely Routes of Exposure

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.

Specific test data for the substance or mixture is not available. Skin contact

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

Ingestion may cause irritation to mucous membranes. Ingestion

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Symptoms related to the Physical, Chemical and Toxicological

Characteristics

Delayed, Immediate, and Chronic Effects from Short and Long Term

Exposure

diarrhea. May be harmful if swallowed (based on components). Erythema (skin redness). May cause redness and tearing of the eyes. May cause blindness. Burning, itching, rushes and/or

may cause gastrointestinal irritation, nausea, vomiting and

May cause sensitization of susceptible persons. May cause

sensitization by skin contact.

Carcinogenicity : The table below indicates whether each agency has listed any

ingredient as carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
ISOPROPYL ALCOHOL	A4	Group 3	-	-
RESORCINOL	A4	Group 3	ī	-
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

Toxicity on Aquatic Organisms :

AMMONIUM CHLORIDE LC50 (Lepomis macrochirus, 96 hrs.) = 74.2 mg/L (ECETOC

TR91, 2003)

BEHENTRIMONIUM CHLORIDE EC50 (Daphnia magna, 48 hrs.) = 0.16 mg/kg

AMMONIUM HYDROXIDE LC50 (Mysidopsis bahia, 96 hrs.) = 2.81 - 98.9 mg total NH₃/L

(SIDS, 2007)

POLYOUATERNIUM-4 No information available

FRAGRANCE No specific information given on the SDS from manufacturer.

RESORCINOL EC50 (Daphnia magna, 48 hrs.) = 1.28 mg/L

p-AMINOPHENOL EC50 (Pseudokirchneriella subcapitata, 72 hrs.) = 0.1 mg/L

NOEC (Pseudokirchneriella subcapitata, 72 hrs) = 0.025 mg/L

Toxicity on Terrestrial Organisms : No information available.

Persistence and Degradability :

BEHENTRIMONIUM CHLORIDE BOD=0 %

MINERAL OIL Persistent (IUCLID, 2000) POLYQUATERNIUM-4 No information available

RESORCINOL BOD = 66.7%p-AMINOPHENOL BOD = 6%

Bioaccumulative Potential

BEHENTRIMONIUM CHLORIDE Low bioaccumulation

MINERAL OIL Log Pow > 6 (IUCLID, 2000)
POLYQUATERNIUM-4 No information available

RESORCINOL $\log \text{Kow} = 0.8$ p-AMINOPHENOL BCF = 46

Mobility in Soil : No information available.

Other Adverse Effects : No information available.

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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 Sewage Disposal-Relevant Information

No information available. No information available.

Other Disposal Recommendation Dispose of contents/containers in accordance with local

regulation (refer to Section 15).

Section 14: Transport Information

•	DOT/TDG	IATA/ICAO	IMDG/IMO
UN Number			
UN Proper Shipping Name	Not Dogulated	Not Dogulated	Not Doguloted
Transport Hazard Classes	Not Regulated	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

No information available. **Environmental Hazards** 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 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. Substances comply or are exempt.

Domestic Substance list (DSL)

US Federal Regulation

Title III of the Superfund Amendments and Reauthorization act of 1986

(SARA 313)

Section 313 of Title III of the Superfund Amendments and 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 values (%)
AMMONIUM CHLORIDE	1.0 as ammonia
AMMONIUM HYDROXIDE	1.0 as ammonia
ISOPROPYL ALCOHOL	1.0

Acute health hazard SARA 311/312 Hazard Category No Chronic health hazard No Fire hazard No Sudden release of pressure hazard No

Reactive hazard No

This product contains the substances which are regulated as Clean Water Act (CWA)

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Clean Air Act (CAA)

pollutant pursuant to the Clean Water Act (40 CFR 122).

This product does not contain substance which is regulated as pollutant pursuant to the Clean Air Act (40 CFR 50 - 99).

Comprehensive Environmental

This material, as supplied, contains one or more substances

Response Compensation and Liability Act (CERCLA)

regulated as hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act

(40 CFR 302).

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Hazardous Substance	Statutory Code*	RCRA Waste No.	Final RQ Pounds
AMMONIUM CHLORIDE	1	-	5000 lb (2270 kg)
AMMONIUM HYDROXIDE	1	-	1000 lb (454 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:

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

Ob blate Right to Know Regulat	10115 .				
Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
AMMONIUM CHLORIDE	X	X	X	X	X
LANOLIN	-	-	X	X	-
PARAFFIN	X	X	X	X	-
AMMONIUM HYDROXIDE	X	X	X	-	X
MINERAL OIL	X	X	X	X	-
ISOPROPYL ALCOHOL	X	X	X	X	-
RESORCINOL	X	X	X	X	X

Section 16: Other Information

NFPA (National Fire Protection	:	Health hazard	2
Association Code)		Flammability hazard	0
		Instability hazard	0
		Special hazards	-
HMIS (Hazardous Materials	:	Health	2
Identification System)		Flammability	0
		Physical hazard	0
		Personal protection	X

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

[&]quot;1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act,

[&]quot;2" indicates that the source is section 307(a) of the Clean Water Act,

[&]quot;3" indicates that the source is section 112 of the Clean Air Act, and

[&]quot;4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA).

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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
- 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.