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3 Composition/imformat	ion on ingreatents	
· Chemical Characterization:	Mixtures	
 Composition/Information 	n on Ingredients	
CAS: 84852-15-3 EINECS: 284-625-5 Index Number: 601-053-00-8	4-Nonylphenol, branched Repr. 2, H361 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Chronic 1, H410 Acute Tox. 4, H302	10-20%
	Polyamide CAS not available per 29CFR1910.1200(i) Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	10-20%
CAS: 61788-32-7 EINECS: 262-967-7 RTECS: WZ6535000	Hydrogenated Terphenyl Aquatic Chronic 4, H413	5-<10%
CAS: 140-31-8 EINECS: 205-411-0 Index Number: 612-105-00-4 RTECS: TK 8050000	N-(2-Aminoethyl)piperazine Acute Tox. 3, H311 Skin Corr. 1B, H314 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412	5-<10%
CAS: 68953-36-6 EINECS: 273-201-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine Skin Corr. 1A, H314 Skin Sens. 1, H317	1-2.5%
	Amino ether -CAS withheld per 29CFR1910,1200(i). Skin Irrit. 2, H315; Eve Irrit. 2A, H319; Skin Sens. 1, H317	1-2.5%
CAS: 26140-60-3 EINECS: 247-477-3	Terphenyls Aquatic Chronic 1, H410 STOT SE 3, H335	0.25-1%
CAS: 112-57-2 EINECS: 203-986-2 Index Number: 612-060-00-0 RTECS: KH8585000	Tetraethylenepentamine Skin Corr. 1B, H314 Aquatic Chronic 2, H411 Acute Tox. 4, H312	0.1-<0.25%
Additional Information: If the chemical name/CA percentage of composition	S number is proprietary and or weight percentage is listed as a range, the specific chemical ic n has been withheld as a trade secret.	dentity and o

4 First-aid measures

Description of First Aid Measures

General Information

Ensure medical personnel are aware of exposure and take precautions for their personal protection; see Section 8 for the information of personal protection.

· After Inhalation

Anter Initiation Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. In case of unconsciousness place patient stably in side position for transportation. If breathing is difficult, administer oxygen. Supply fresh air; consult doctor in case of complaints.

After Skin Contact

Immediately remove all contaminated clothing and put them in a tightly sealed bag. Immediately wash contaminated skin with water and soap and rinse them thoroughly. Get medical attention

After Eye Contact

Immediately rinse opened eyes for at least 15 minutes under running water. Immediately remove contact lenses if present. Continue rinsing. Do not put any ointments, oils or medication in eyes without specific instructions. Seek medical advice.

After Swallowing

If victim is unconscious; never give anything by mouth. If victim is conscious; rinse out mouth and give victim small amounts of water. Do NOT induce vomiting. If vomiting occurs spontaneously, keep victim's head below hips to prevent aspiration of liquid into lungs.

Get medical attention

Information for Doctor
 Indication of any Immediate Medical Attention and Special Treatment Needed Check section 11 Toxicological Information for further relevant information.

5 Fire-fighting measures

Extinguishing Media

 Suitable Extinguishing Agent(s)
 Use fire fighting measures and extinguishing agents that suit the environment. In case of fire, suitable extinguishing agents are: Alcohol resistant foam.
 Dry chemical or fire-extinguishing powder. Carbon dioxide (CO₂).
 Water spray or water fog.
 Unsuitable Extinguishing Agent(s) Water with full jet

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(Contd. of page 2) Firefighting Procedures Solid stream of water may spread fire; use water spray or water fog. Cool all affected containers with flooding quantities of water. Runoff from fire control or dilution water may be corrosive and/or toxic; protect personnel and minimize property damage. Contain fire water runoff if possible to prevent environmental pollution. Apply water from as far as a distance as possible. Special Hazards Arising in Fire In case of fire, following can be released: May generate ammonia gas. Iow molecular weight hydrocarbons. Carbon dioxide (CO_2) and Carbon monoxide (CO) Advice for Firefighters If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156). As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved. Additional Information Ensure adequate and functional fire fighting facilities equipped in working area at all times. 6 Accidental release measures Personal Precautions Do not touch damaged containers or spills unless wearing appropriate protective equipment. Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use. Ensure personnel take precautions for their personal protection during clean up; see Section 8 for the specific requirements. **Environmental Precautions** Keep away from sewage system or other water courses; do not penetrate ground/soil. Inform respective authorities in case of any seepage to the environment. Cleaning Up Methods Ensure adequate ventilation. Eliminate all ignition sources. Keep unauthorized personnel away. Absorb residues with liquid-binding materials. Ventilate and wash area after clean-up is complete. Collect spills in suitable and properly labeled containers. Do not use solvents unless following safe handling practices and within the recommended exposure guidelines. Dispose contaminated chemicals as waste according to Section 13. Protective Action Criteria for Chemicals · PAC-1: 21645-51-2 Aluminum hydroxide 8.7 mg/m3 84852-15-3 4-Nonylphenol, branched 3.9 mg/m3 61788-32-7 Hydrogenated Terphenyl 1.5 ppm 140-31-8 N-(2-Aminoethyl)piperazine 6.4 mg/m3 26140-60-3 Terphenyls 112-57-2 Tetraethylenepentamine 0.45 mg/m3 15 mg/m3 · PAC-2: 21645-51-2 Aluminum hydroxide 73 mg/m3 84852-15-3 4-Nonylphenol, branched 43 mg/m3 61788-32-7 Hydrogenated Terphenyl 47 ppm 140-31-8 N-(2-Aminoethyl)piperazine 71 mg/m3 26140-60-3 Terphenyls 112-57-2 Tetraethylenepentamine 5 mg/m3 130 mg/m3 · PAC-3: 21645-51-2 Aluminum hydroxide 440 mg/m3 84852-15-3 4-Nonylphenol, branched 61788-32-7 Hydrogenated Terphenyl 260 mg/m3 280 ppm 140-31-8 N-(2-Aminoethyl)piperazine 420 mg/m3 26140-60-3 Terphenyls 1,400 mg/m3 112-57-2 Tetraethylenepentamine 790 mg/m3

7 Handling and storage

Handling

Avoid any body contact of containers or contents unless wearing appropriate personal protective equipment.

- Avoid any body contact of containers of contents unless wearing appropriate personal Keep away from incompatible material(s). Avoid any release into the environment. For industrial or professional use only Observe all the personal protection requirements in Section 8. Information about Protection Against Explosions and Fires Keep away from heat, sparks, open flame and other ignition sources during handling. Be prenared with respirators.

Be prepared with respirators.

Storage

Requirements to be Met by Storerooms and Receptacles Store in a well-ventilated place; provide ventilation for receptacles. Keep stored in accordance with local, regional, national, and international regulations.

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· Additional Information No further relevant information.

8 Exposure controls/personal protection

 Engineering Measures or Controls
 Exposure Limit Values that Require Monitoring at the Workplace
 The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
 At this time, the other constituents have no known exposure limits. 84852-15-3 4-Nonylphenol, branched TEEL-1 Short-term value: 20 mg/m³ TEEL-2 Short-term value: 125 mg/m³ TEEL-3 Short-term value: 500 mg/m³ 61788-32-7 Hydrogenated Terphenyl REL Long-term value: 5 mg/m³, 0.5 ppm TLV Long-term value: 4.9 mg/m³, 0.5 ppm nonirradiated 140-31-8 N-(2-Aminoethyl)piperazine TEEL-1 Short-term value: 7.5 mg/m³ TEEL-2 Short-term value: 50.0 mg/m³ TEEL-3 Short-term value: 500 mg/m³ 112-57-2 Tetraethylenepentamine WEEL Long-term value: 5 mg/m³ Skiň; DSEN

Other Engineering Measures or Controls

Ventilation rates should be matched to conditions. If applicable, use process enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

· Personal Protective

General Protective and Hygienic Measures Use of this material at elevated temperatures or aerosol/spray applications may require additional precautions. Avoid any contact with skin or eye.

Do not eat, drink or smoke during work. Clean hands and exposed skin thoroughly after work and before breaks. Pregnant women should avoid direct skin contact with this product.

· Personal Protective Equipment (PPE)

Breathing Equipment Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended

Sumorem ventulation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits. Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use. Hand Protection

Selection of glove material should take into consideration the penetration times, rates of diffusion, and the degradation.

- Nitrile Gloves Butyl Rubber Gloves
- Eve Protection

do not wear contacts. safety glasses with side shields and or face shield. Body Protection Appropriate chemical resistant clothing.

· Additional Information

All protective clothing (suits, gloves, footwear, headgear) should be clean, available every day, and put on before work. The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

9 Physical and chemical pro	perties	
Information on Basic Physical and Appearance: Form: Color: Odor: Odor Threshold:	d Chemical Properties Liquid Cream Amine-like Not determined.	
· PH-Value:	Not determined.	
Change in Condition: Melting Point: Boiling Point: Flash Point: Decomposition Temperature: Auto-ignition Temperature: Flammability: Explosion: Explosion Limits: Lower: Upper: }	Not determined. Not determined. >93 °C (>199 °F) Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.	
· Vapor Pressure:	Not determined.	
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Print Date 03/23/2017 Trade Name: EP1295NUL BLACK B (Contd. of page 4) Vapor Density: Density at 20 °C (68 °F): Solubility in or Miscibility with not determined 1.32 g/cm3 (11.015 lbs/gal) · Water: Partially miscible. Viscosity: Dynamic: Not determined. Kinematic: Not determined. · Additional Information No further relevant information. 10 Stability and reactivity · Physical Hazard(s) Not a regulated reactive or physical hazard under GHS. · Hazardous Reactivity and Chemical Stability Stable under normal conditions of use, storage and temperatures. Thermal Decomposition and Conditions to be Avoided Keep away from incompatible material(s). Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources. Possibility of Other Hazardous Reaction(s) May slowly corrode Copper, Aluminum, Nickel, Cobalt, Zinc and Galvanized surfaces. May react with strong reducing agents generating flammable hydrogen (H_2). Incompatible Material(s) Oxidizing agents Acids Bases (Alkalis) Hazardous Decomposition Product(s) Phosphoric acid Ammonia (NH₃) and/or Amines. Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition. 11 Toxicological information Information on toxicological effects Acute Toxicity LD/LC50 values that are relevant for classification: If swallowed, may cause: diarrhea nausea Shock or collapse See acute inhalative effect(s) for further information 21645-51-2 Aluminum hydroxide (rat) (LD0(OECD TG 401)>5000mg/kg: no death occurred) Oral LD50 Dermal LD50 (Test species: n/a) (Toxicity not expected based on acute oral data) Inhalative LC50/4 h (Test species: n/a) (Toxicity not expected as a wetted form) 84852-15-3 4-Nonylphenol, branched 1604 mg/kg (rat) Reference: Vendor SDS (2015) LD50 Oral LD50 2031 mg/kg (rabbit) Vendor SDS 2015 Dermal Inhalative LC50/4 h not classified mg/l (mouse) (Non-toxic; LC50 exceeded the satured vapor value) 68333-79-9 Ammonium Polyphosphate 5625 mg/kg (rat) $LD0 (OECD TG 425) \ge 2000 \text{mg/kg; no death occurred.}$ All animals survived, gained weight and appeared active and healthy throughout the study period. Reference: SIDS Dossier (2007). LD50 Oral (rat) (LD0 (OECD TG 402) \geq 5000mg/kg; no death occurred) All animals survived, gained weight and appeared active and healthy throughout the study period. Reference: SIDS Dossier (2007). LD50 Dermal Inhalative LC50/4 h (Test species: n/a) (Toxicity not expected due to wetted form) 61788-32-7 Hydrogenated Terphenyl Oral LD50 12500 mg/kg (mouse) (Adamson and Weeks method) Dermal LD50 6800 mg/kg (rabbit) (LD50; Industrial biotest laboratory method) Inhalative LC50/4 h not classified mg/l (rat) 140-31-8 N-(2-Aminoethyl)piperazine Oral LD50 2140 mg/kg (rat) Dermal I D50 866 mg/kg (rabbit) Inhalative LC50/4 h not classified mg/l (rat) (No mortality observed at saturated atmosphere) 68953-36-6 Fatty acids, tall-oil, reaction products with tetraethylenepentamine (rat) (LD50 > 2000 mg/kg) Oral LD50 (rabbit) (LD50 ≥ 8550 mg/kg) Dermal LD50 68956-74-1 Polyphenyls, quater- and higher, partially hydrogenated >2000 mg/kg (read across from 101-68-8) Oral LD50 Dermal LD50 >2000 mg/kg (rabbit) Inhalative LC50/4 h >3.8 mg/l (read across from 101-68-8) (Contd. on page 6)



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Amino ether -CAS withheld per 29CFR1910.1200(i).	
Oral LD50 4310 mg/kg (read across from 101-68-8)	
Dermal LD50 2510 mg/kg (read across from 101-68-8)	
20140-00-3 Terphientyrs	
Dermal $ID50 > 5000$ mg/kg (rat) (OECD 10 + 00 + 00 + 00 + 00 + 00 + 00 + 00	
Inhalative LC50/4 h (rat) (LC0> 3.8 mo/l: OECD TG 403: no death occurred)	
• Specific symptoms in biological assay:	
Not a classified acute dermal hazard.	
See acute innaiative effect(s) for further information.	
While not a classified inhalative acute toxicity hazard, the product may cause the following symptoms:	
burning sensation	
sore triveat cough headache, nausea, shortness of breath, vomiting, and wheezing	
on the skin. Caustic effect on the skin and muccus membranes	
on the own: Strong country offert	
• on the eye, on ong causic enect.	
Sensitization: Possible sensitization upon contact with skin.	
• Experience with humans: Not applicable.	
• Additional toxicological information:	
Corrosive	ins:
Irritant	
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esopha	agus and stomach.
· Carcinogenic categories	
· IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	
NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
12 Ecological information	
· Toxicity	
· Aquatic toxicity:	
21645-51-2 Aluminum hydroxide	
EC50 not irritating mg/kg (rabbit) (DECD 1G 404; semiocclusive; 4hr-contact; undiluted)	
84832-13-3 4-NonJy/pnenoi, branchea	
All tested animals showed signs of ervthema, edema, and eschar which were not fully reversible within	8 davs.Reference: IUCLID
Dataset (2000).	
68333-79-9 Ammonium Polyphosphate	
EC50 not irritation mg/kg (rabbit) (24n-contact; Draize score: 0 (Max. 8)) The substance gauged digth irritation in an EDA lightlinic tast, another study using 00% concentrates	Loubstance led no irritating
effects. Meanwhile, it was not irritating through an 24-hr exposure in rabbits. When considering the	weight of all evidence, the
substance was not determined to be irritating to rabbit skin.	3
Reference: IUCLID Dataset (2000).	
Polyamide CAS not available per 29CFR1910.1200(I)	
EC30 Inductate migrag (rest species, ind)	
EC50 not irritating marka (rabbit) (Draize test)	
140-31-8 M-dcampenty liping radius (1997)	
EC50 corrosive mg/kg (rabbit) (US DOT Corrosivity Assay)	
68953-36-6 Fatty acids, tall-oil, reaction products with tetraethylenepentamine	
EC50 (No data available)	
68956-74-1 Polyphenyls, quater- and higher, partially hydrogenated	
EC50 (No data available)	
26140-60-3 Terphenyls	
E_{1} E_{1	
Development and prove the development of the development substance, 24 m-exposure)	
Persistence and degradability No data available. Behavior in environmental systems:	
Persistence and degradability No data available. Behavior in environmental systems: Bioaccumulative potential No data available.	
Persistence and degradability No data available. Behavior in environmental systems: Bioaccumulative potential No data available. Mobility in soil No further relevant information available. Mobility in soil No further relevant information available. Mobility in soil No further relevant information available.	
Persistence and degradability No data available. Behavior in environmental systems: Bioaccumulative potential No data available. Mobility in soil No further relevant information available. Additional ecological information: The product is non-rapid degradable, and low or not highly bioaccumulative General notes:	<u>.</u>
 Persistence and degradability No data available. Behavior in environmental systems: Bioaccumulative potential No data available. Mobility in soil No further relevant information available. Additional ecological information: The product is non-rapid degradable, and low or not highly bioaccumulative General notes: 	
 Persistence and degradability No data available. Behavior in environmental systems: Bioaccumulative potential No data available. Mobility in soil No further relevant information available. Additional ecological information: The product is non-rapid degradable, and low or not highly bioaccumulative General notes: 	<u>.</u>
 Persistence and degradability No data available. Behavior in environmental systems: Bioaccumulative potential No data available. Mobility in soil No further relevant information available. Additional ecological information: The product is non-rapid degradable, and low or not highly bioaccumulative General notes: Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even extremely small quantities leak into the ground 	<u>.</u>
 Persistence and degradability No data available. Behavior in environmental systems: Bioaccumulative potential No data available. Mobility in soil No further relevant information available. Additional ecological information: The product is non-rapid degradable, and low or not highly bioaccumulative General notes: 	n.
 Persistence and degradability No data available. Behavior in environmental systems: Bioaccumulative potential No data available. Bioaccumulative potential No data available. Mobility in soil No further relevant information available. Additional ecological information: The product is non-rapid degradable, and low or not highly bioaccumulative General notes: 	e.



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· vPvB: None of the ingredients is listed.

· Other adverse effects No further relevant information.

13 Disposal considerations

· Waste treatment methods

Recommendation.

Generation of waste should be avoided or minimized wherever possible. Chemical waste, even small quantities, is neither allowed to be poured down drains, sewage system or waterways; nor disposed with household garbage.

Dispose of contents/containers in accordance with local, regional, national, and international regulations.

Uncleaned packagings: Recommendation Dispose of according to your local waste regulations.





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Stowage Category Stowage Code Segregation Code	A SW2 Clear of living quarters. SG35 Stow "separated from" acids.
 Transport in Bulk according to Annex II of MARPOL73/78 and th IBC Code 	e Not applicable.
· Transport/Additional Information:	
· DOT · Quantity limitations	On passenger aircraft/rail: On cargo aircraft only:
· Remarks:	Special marking with the symbol (fish and tree).
· ADR · Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (4- NONYLPHENOL, BRANCHED, N-AMINOETHYLPIPERAZINE), 8, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· Section 302 (Extremely Hazardous Substances)	
None of the ingredients is listed.	
 Section 313 (Toxics Release Inventory (TRI) reporting) 	
84852-15-3 4-Nonylphenol, branched	10-209
Section 311/312 (Hazardous Chemical Inventory Reporting)	
84852-15-3 4-Nonylphenol, branched	A 10-20%
140-31-8 N-(2-Áminoethyl)piperazine	A, C 5-<10%
112-57-2 Tetraethylenepentamine	A 0.1-<0.259
Hazard Abbreviations for SARA 311/312	
A - Acute Health Hazard	
C - Chronic Health Hazard	
F - Fire Hazard	
R - Reactive Hazard S - Sudden Release of Pressure Hazard	
, TSCA (Toxic Substances Control Act)	
21645-51-2 Aluminum bydroxide	
84852-15-3 4-Nonvinhenol branched	
68333-70-9 Amonium Polyhoshate	
61788-32-7 Hydrogenated Tembenyl	
140-31-8 N-(2-Aminoethyl)pinerazine	
68953-36-6 Fatty acids, tall-oil reaction products with tetraethylenepentamine	
68956-74-1 Polyphenyls, guater- and higher, partially, hydrogenated	
26140-60-3 Terphenyls	
112-57-2 Tetraethylenepentamine	
Proposition 65	
Chemicals Known to Cause Cancer	
None of the ingredients is listed	
Chemicals Known to Cause Reproductive Toxicity for Females	
None of the ingredients is listed	
Chemicals Known to Cause Reproductive Toxicity for Males	
None of the inaredients is listed.	
Chemicals Known to Cause Developmental Toxicity	
None of the ingredients is listed.	
Carcinogenic Categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TI V (Threshold Limit Value Established by ACGIH)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safaty and Health)	
None of the ingredients is listed	
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· Interna	tional Regulation Lists	
	Chinese Chemical Inventory of Existing Chemical Substances:	
21645-51-2	Aluminum hydroxide	
84852-15-3	4-Nonylphenol, branched	
68333-79-9	Ammonium Polyphosphate	
61788-32-7	Hydrogenated Terphenyl	
140-31-8	N-(2-Aminoethyl)piperazine	
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	
68956-74-1	Polyphenyls, quater- and higher, partially hydrogenated	
26140-60-3	Terphenyls	
112-57-2	Tetraethylenepentamine	
	Japanese Existing and New Chemical Substance List:	
21645-51-2	Aluminum hydroxide	
84852-15-3	4-Nonylphenol, branched	
68333-79-9	Ammonium Polyphosphate	
61788-32-7	Hydrogenated Terphenyl	
140-31-8	N-(2-Aminoethyl)piperazine	
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	
68956-74-1	Polyphenyls, quater- and higher, partially hydrogenated	
26140-60-3	Terphenyls	
112-57-2	Tetraethylenepentamine	
	Korean Existing Chemical Inventory:	
21645-51-2	Aluminum hydroxide	
84852-15-3	4-Nonylphenol, branched	
68333-79-9	Ammonium Polyphosphate	
61788-32-7	Hydrogenated Terphenyl	
140-31-8	N-(2-Aminoethyl)piperazine	
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	
68956-74-1	Polyphenyls, quater- and higher, partially hydrogenated	
26140-60-3	Terphenyls	
112-57-2	Tetraethylenepentamine	
	European Pre-registered substances:	
21645-51-2	Aluminum hydroxide	
84852-15-3	4-Nonylphenol, branched	
68333-79-9	Ammonium Polyphosphate	
61788-32-7	Hydrogenated Terphenyl	
140-31-8	N-(2-Aminoethyl)piperazine	
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	
68956-74-1	Polyphenyls, quater- and higher, partially hydrogenated	
26140-60-3	Terphenyls	
112-57-2	Tetraethylenepentamine	
	REACh - Substances of Very High Concern (SVHC) List:	
84852-15-3	4-Nonylphenol, branched	10-20%
	Restriction of Hazardous Substances Directive (RoHS) list:	
None of the	ingredients is listed.	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department Issuing (M)SDS: Product Safety Department Contact: msds@resinlab.com

Abbreviations and acronyms:

 ACGIH: American Conference of Governmental Industrial Hygienists

 ACTOR: US EPA Aggregated Computational Toxicology Resource

 ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

 BCF: Bioconcentration Factor

 CAS: Chemical Abstracts Service (division of the American Chemical Society)

 CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System

 CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform

 CLP/GHS: CLP (Classification, Labelling and Packaging of substances and mixtures) implements the Globally harmonised System (GHS) under Regulation (EC) No 1272/2008.

 DOT: US Department of Transportation

 DSL: Canada Domestic Substances Information System

 HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System

 HVIS: US EPA High Production Volume Information System

 HSDB: US NLM TOXNET Hazardous Substances and New Organisms Chemical Classification Information Database

 HSNB: US NLM TOXNET Hazardous Substances and New Organisms World Health Organisation (WHO)

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ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)	
ICSC: International Chemical Safety Cards IMDG: International Maritime Dangerous Goods; the principal international rules for International Carriage of Dangerous Goods by SEA under the Recommendations on the Transport of Dangerous Goods by United Nations (RTDG) IUCLID: EU REACh International Uniform Chemical Information Database Koc: Partition coefficient, soil Organic Carbon to water	
LC50/LD50: Lethal Concentration/Dose, 50 percent N/a: Not available or Not applicable NEPA: US National Fire Protection Association	
NIOSH: US National Institute of Occupational Safety and Health NITE: National Institute of Technology and Evaluation, Japan	
OECD: Organisation for Economic Co-operation and Development OSHA: US Occupational Safety and Health Administration P: Marine Pollutant	
RCRA: Resource Conservation and Recovery Act (USA) REACh: EU Registry, Evaluation and Authorisation of Chemicals RID: the Regulations Concerning the International Carriage of Dangerous Goods by Rail; published by the Central Office for International	
Carriage by Rail (OTIF) RTDG: the Recommendations on the Transport of Dangerous Goods by United Nations (UN) RTECS: US Registry of Toxic Effects of Chemical Substances	
SARA: US Superfund Amendments and Reauthorization Act SIDS: OECD existing chemicals Screening Information Data Sets SIDS SIAM(R): SIDS Initial Assessment Meetings(Reports)	
SVHC: EU ECHA Substance of Very High Concern TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE) TOXI ME: US NH bibliographic discharge count punctum	
TSCA: US Toxic Substance Control Act • Date of preparation / last revision 03/23/2017 / 2	