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 Product Identifier Trade Name: EP1340 B

Application of the Substance or Mixture: Epoxy Hardener

Details of the Supplier of the Safety Data Sheet (SDS)

Manufacturer or Supplier: Resinlab, LLC N109 W13300 Ellsworth Drive, Germantown, WI 53022 1-800-388-8605

www.resinlab.com

Information Department: Product Safety Department: msds@resinlab.com Emergency Telephone Number: North America - Chemtrec: 1-800-424-9300 (24 hours) International - Chemtrec: 01-703-527-3887 (24 hours)

2 Hazard(s) identification

Hazard Classification

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Repr. 2 H361 Suspected of damaging fertility or the unborn child.
- · Label Elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Pictogram(s)



Signal Word Danger

Hazard-determining Component(s) 4-Nonylphenol, branched Poly(oxypropylene)diamine Bisphenol A N-(2-Aminoethyl)piperazine Benzyl alcohol Hazard statements

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.

Precautionary statements Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INFALED: Remove person to fresh air and keep comfortable for breathing. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention. If swallowed: Rinse mouth. Do NOT induce vomiting.

Collect spillage. Store locked up

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard Rating System NFPA System NFPA Ratings (scale 0 - 4)

Health = 3Fire = 1 Reactivity = 0

NFPA special hazards (water reactivity and oxidizing property): None

· HMIS System · HMIS Ratings (scale 0 - 4)

HEALTH *3 Health = *3 FIRE 1 Fire = 1Reactivity = 0**REACTIVITY** 0

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Other hazards Results of PBT and vPv PBT: Not applicable vPvB: Not applicable	/B assessment	
Composition/information	tion on ingredients	
Chemical Characterization	Mixtures	
Composition/Informatio	on 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
	Organophosphorous salt	10-20
CAS: 9046-10-0	Poly(oxypropylene)diamine Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Chronic 2, H411 Aquatic Acute 3, H402	10-20
CAS: 80-05-7 EINECS: 201-245-8 Index Number: 604-030-00-0 RTECS: SL 6300000	Bisphenol A Repr. 2, H361 Eve Dam. 1, H318 Skin Sens. 1, H317: STOT SE 3, H335	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 Acute Tox. 4, H302; Skin Sens. 1, H317 Acute Chronic 3, H412	5-<10
	Amino ether -CAS withheld per 29CFR1910.1200(i). Skin Irrit 2 H315: Eve Irrit 2A H319: Skin Sens 1 H317	1-2.5
CAS: 100-51-6 EINECS: 202-859-9 Index Number: 603-057-00-5 RTECS: DN 3150000	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2A, H319 Aquatic Acute 2, H401	0.1-1
CAS: 103-83-3 EINECS: 203-149-1 Index Number: 612-074-00-7 RTECS: DP 4500000	Benzyldimethylamine Flam. Lig. 3, H226 Acute Tox. 3, H301 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Chronic 2, H411 Acute Tox. 4, H312; Acute Tox. 4, H332	0.1-<1
CAS: 71-36-3 EINECS: 200-751-6 Index Number: 603-004-00-6 RTECS: EO 1400000	1-Butyl alcohol Flam, Liq. 3, H226 Eve Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	0-<0.1

Additional Information: If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

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 Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. Consult a physician after significant exposure. In case of unconsciousness place patient stably in side position for transportation.

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.

Seek medical advice.

After Swallowing If victim is unconscious; never give anything by mouth.



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If victim is conscious; rinse out mouth and give victim small amounts of water. Do NOT induce vomiting. Get medical attention

Additional Information

For additional information, please consult the corresponding first aid measures in the most current version of Emergency Response Guidebook which is produced by the US Department of Transportation.

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

Firefighting Procedures Isolate fire and deny unnecessary entry. Eliminate all ignition sources if safe to do so. Do not extinguish fire unless flow can be stopped. Fight fire remotely due to the risk of explosion. Use water spray or water fog to cool fire-exposed containers. 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.

Special Hazards Arising in Fire

Will not burn unless preheated. In case of fire, following can be released: Carbon dioxide (CO₂) and Carbon monoxide (CO) Nitrogen oxides Silicon oxide (SiO₂) Titanium oxides Aluminum oxide (Al_2O_3) dust, a serious respiratory irritant, may be formed during fires. Iron oxides Phosphorus oxide (P₂O₅) 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. Allow molten product to cool.

Allow molen plotter to cool. 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.

7 Handling and storage

Handling

Precautions for Safe Handling Avoid any body contact of containers or contents unless wearing appropriate personal protective equipment. 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 Eiros

Information about Protection Against Explosions and Fires

Will not burn unless preheated.

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Keep away from heat, sparks, open flame and other ignition sources during handling. 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. Information about Storage in One Common Storage Facility Store away from incompatible material(s). Store away from foodstuffs.

- Avoid release to the environment.

· Additional Information No further relevant information.

8 Exposure controls/personal protection

Engineering Measures or Controls • Exposure Limit Values that Require Monitoring at the Workplace 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 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 100-51-6 Benzyl alcohol TEEL-1 Short-term value: 260 mg/m³, 60.0 ppm TEEL-2 Short-term value: 660 mg/m³, 150.0 ppm TEEL-3 Short-term value: 660 mg/m³, 150.0 ppm WEEL Long-term value: 10 ppm 103-83-3 Benzyldimethylamine TEEL-1 Short-term value: 3.0 mg/m³ TEEL-2 Short-term value: 20.0 mg/m³ TEEL-3 Short-term value: 200.0 mg/m³ 71-36-3 1-Butyl alcohol PEL Long-term value: 300 mg/m³, 100 ppm REL Ceiling limit value: 150 mg/m³, 50 ppm Skin TLV Long-term value: 61 mg/m³, 20 ppm 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 Pregnant women should strictly avoid inhalation and skin contact. 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. Personal Protective Equipment (PPE) Breathing Equipment Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended Sufficient ventiliation in pattern and volume should be presented in exposure limits. 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. Suggested glove type(s): Nitrile Gloves Butyl Rubber Gloves Eye Protection tightly sealed goggles

Body Protection Chemical resistant apron; cover exposed skin.

· Additional Information

All protective clothing (suits, gloves, footwear, headgear) should be clean, available every day, and put on before work.

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(Contd. of page 4) 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 properties		
Information on Basic Physical and Chemic	al Properties	
· Form:	Liquid	
· Color:	Cream	
· Odor:	Amine-like	
· Odor Threshold:	Not determined.	
· PH-Value at 20 °C (68 °F):	>10.5	
· Change in Condition:		
Melting Point:	Not determined.	
· Boiling Point:	Not determined.	
· Flash Point:	> 93 °C (> 199 °F)	
 Decomposition Temperature: 	Not determined.	
Flammability:	Not determined.	
· Explosion:	Not determined.	
Explosion Limits:		
Lower:	Not determined.	
· Upper:	Not determined.	
· Vapor Pressure:	Not determined.	
· Vapor Density:	not determined	
· Density at 25 °C (77 °F):	1.23 g/cm³ (10.264 lbs/gal)	
Solubility in or Miscibility with		
· Water:	Partially miscible.	
 Segregation coefficient LogPow (n-octa 	anol/water): Not determined.	
· Viscosity:	-	
Dynamic at 20 °C (68 °F):	14000 mPas	
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 react with strong reducing agents generating flammable hydrogen (H₂).

 Incompatible Material(s)
 Incompatible Material(s)
 hydroxyl or active hydrogen compounds metal or metallic compounds
 Oxidizing agents Isocyanates
 Aldehydes
 Chloroformates
 Acids
 Chlorinated rubber
 Hazardous Decomposition Product(s)
 Ammonia (NH₃) and/or Amines. Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.
 Hazardous Polymerization Product(s) No relevant information.

 11 Toxicological information

 • Acute Toxicity

 • Oral

 21645-51-2 Aluminum hydroxide

 Oral
 LD50

 (rat) (LD0(OECD TG 401)>5000mg/kg: no death occurred) No mortality was observed after a single oral administration with 5000 mg/kg of the substance. Reference: ECHA (2011) and IUCLID Dataset (2000).

 84852-15-3 4-Nonylphenol, branched

 Oral
 LD50

 1604 mg/kg (rat) Reference: Vendor SDS (2015)

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(Contd. of page 5) Organophosphorous salt Oral LD50 > 2000 mg/kg (rat) (OECD TG 401 Reference: Vendor (M)SDS (2005) 9046-10-0 Poly(oxypropylene)diamine Oral LD50 2885 mg/kg (rat) (similar to OECD guideline 401) Reference: Vendor SDS (2015). 80-05-7 Bisphenol A Oral LD50 3300 mg/kg (Rats and Mice) Reference: IUCLID Dataset (2000) and ECHA (2011). 140-31-8 N-(2-Aminoethyl)piperazine Oral LD50 2140 mg/kg (rat) Vendor SDS (2015) 92704-41-1 Calcined Kaolin Oral LD50 > 5000 mg/kg (rat) Reference: ECHA (2011) Amino ether -CAS withheld per 29CFR1910.1200(i). Oral LD50 4310 mg/kg (rat) 103-83-3 Benzyldimethylamine Oral LD50 265 mg/kg (rat) Reference: Sigma Aldrich Potential Health Effect(s): If swallowed, may cause: diarrhea shock or collapse cramps abnormal pain, headache, nausea, vomiting, drowsiness See acute inhalative effect(s) for further information · Dermal 21645-51-2 Aluminum hydroxide Dermal LD50 (Test species: n/a) (Toxicity not expected based on acute oral data) 84852-15-3 4-Nonylphenol, branched Dermal LD50 2031 mg/kg (rabbit) Vendor SDS 2015 Organophosphorous salt Dermal LD50 > 2000 mg/kg (rat) (OECD TG 402; female rats) Reference: Vendor (M)SDS (2005). 9046-10-0 Poly(oxypropylene)diamine Dermal LD50 2980 mg/kg (rabbit) (similar to OECD guideline 402) Reference: Vendor SDS (2015). 80-05-7 Bisphenol A Dermal LD50 3000 mg/kg (rabbit) (3 out of 15 treated rabbits died at 2000 mg/kg) Reference: IUCLID Dataset (2000). 140-31-8 N-(2-Aminoethyl)piperazine Dermal LD50 866 mg/kg (rabbit) Reference: OECD SIDS (2005) 92704-41-1 Calcined Kaolin Dermal LD50 > 5000 mg/kg (rat) Reference: ECHA (2011) Amino ether -CAS withheld per 29CFR1910.1200(i). Dermal LD50 2510 mg/kg (rat) 103-83-3 Benzyldimethylamine Dermal LD50 1660 mg/kg (rabbit) Behavioral: Tremors/Excitement Reference: Sigma Aldrich Potential Health Effect(s): No further relevant information available; classification is not possible. See acute inhalative effect(s) for further information. Inhalative 21645-51-2 Aluminum hydroxide Inhalative LC50/4 h (Test species: n/a) (Toxicity not expected as a wetted form) Due to wetted form, inhalative effects of the substance can be seen as negligible. 84852-15-3 4-Nonylphenol, branched Inhalative LC50/4 h . The substance was not classified as an acute inhalative hazard under its regular use. Reference: IUCLID Dataset (2000). Organophosphorous salt Inhalative LC50/4 h (Test species: n/a) (Toxicity not anticipated as a wetted form) Due to the wetted form, inhalative effects of the substance can be seen as negligible. (Contd. on page 7)

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Illineaueu LCOUM II (no montainy may it applicate prime on Reference: Vendor SDS 2016 in 8 hour exposure period. Reference: Vendor SDS 2016 in 8 hour exposure period. Reference: Vendor SDS 2016 in 8 hour exposure period. Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO > 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO = 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO = 0.17 mg/r, no death occurred) Inhibitive LCSOM II (rat) (LO = 0.17 mg/r, no death of rat) no death in all ot gliatrices I cough, headache, nausea, shortness of breath, vomting, and wheezing Skin Corrosion of Initiation I corrosion (Initiation I corrosion (Initi	3040-10-0 F	ny (oxypropy) reine jui dillille 1004 bi se medela bis une il (neb / Europouro Timo Ob)
B0-05-7 Bisphenol A Inhalative [C504 h] [rat] (C0 > 0, 17 mg/), no death occurred) Inhalative [C504 h] [rat] (No mortality observed at saturated atmosphere) Inhalative [C504 h] [rat] (No mortality observed at saturated atmosphere) Inhalative [C504 h] [rat] (No mortality observed at saturated atmosphere) Inhalative [C504 h] [rat] (No mortality observed at saturated atmosphere) Inhalative [C504 h] [rat] (No mortality observed at saturated atmosphere) Inhalative [C504 h] [rat] (No mortality observed at saturated atmosphere) Inhalative [C504 h] [rat] (No mortality observed at saturated atmosphere) Inhalative [C504 h] [rat] (No mortality observed at saturated atmosphere) Inhalative [C504 h] [rat] (No mortality observed at saturated atmosphere) Inhalative [C504 h] [rat] (No mortality observed at saturated atmosphere) Inhalative [C504 h] [rat] (No mortality observed at saturated atmosphere) Inhalative [C504 h] [rat] While not possible to classify the acute inhelative hazard due to missing data, the product may cause the following symptom(s): masa discharge Isota Charge Solucity, headabe, nausea, shortness of breach, vomiting, and wheezing Solucity (Readber, nausea, shortness of breach, vomiting, and wheezing Corroson/Irritation (Readber) Corroson/Irritation (Readber) Corroson/Irritation (R	Inhalative L	/50/4 h no mortality mg/l (rat) (Exposure Time 8h) No mortality was observed over an 8 hour exposure period. Reference: Vendor SDS 2015
Instalative LC50/41 [12] [LC50.42] [LC	80-05-7 Ris	henol 4
 Loos II. Reference: ECHA (2011). Loos II. Reference: ECHA (2011). Loos II. Reference: CECD SIDS Userved at saturated atmosphere). Reference: CECD SIDS (2005). S2704-11- Catimed Keolin Inhialative LCS04 II. (2011). Reference: CECD SIDS (2005). Caticater (1000). Caticater (1000).	Inhalative I	$\frac{1}{100}$ $\frac{1}$
 140-31-8 M-24-Aminoethy/piperazine Inhalative [CS04 h] [ref] (No morbilly observed at saturated atmosphere) 2704-41-1 Calcined Kaolin [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly observed at saturated atmosphere) [CS04 h] [ref] (No morbilly (SS04 h] [ref] (No morbilly (SS04		Reference: FCHA (2011)
Inhibitative IC50/F 11 (and /Ko mortality observed at saturated atmosphere) Reference: CECD SIDS (2005). 92704-11-1 Calcined Kaolin Inhibitative IC50/F 11 (Test species: n/a) Use to the wetted form. Inhelative effects of the substance can be seen as negligible 103-83-3 Berzyldimethylamic Use to the wetted form. Inhelative effects of the substance can be seen as negligible 103-83-1 Berzyldimethylamic (All animals died at 500pm group) (Inhelative L50/F 11 (Strong) (All animals died at 500pm group) groups. Reference: ECH4 (2011). 103-83-3 Berzyldimethylamic (All animals died at 500pm group) groups. Reference: ECH4 (2011). 103-83-1 Berzyldimethylamic (All animals died at 500pm group) groups. Reference: ECH4 (2011). 103-83-1 Berzyldimethylamic (All animals died at 500pm group) 103-83-1 Berzyldimethylamic (All animals died at 500pm group) 103-83-1 Berzyldimethylamic (Constanting (abbit) (DECD TG 404; semicoclusive; 4hr-contact; undiluted) 2465-23-4 Monylphenol, branched (Corrosion/Initiation) (roi mitation) (roibbit) (DECD TG 404; semicoclusive; 4hr-contact; undiluted) 2465-23-4 Monylphenol, branched (Corrosion/Initiation) (roibbit) (DECD TG 404; semicoclusive; 4hr-contact; undiluted) 2465-23-4 Monylphenol, branched (Corrosion/Initiation) (roibbit) (DECD TG 404; semicoclusive; 4hr-contact; undiluted) 2465-23-4 Monylphenol, branched (Corrosion/Initiatio	140-31-8 N-	2.4 minoethylhinerazine
Inflattart [2009] Reference: OECD SIDS (2005). SiDS 2704-41-1 Calcined Kaolin (Installed LC50/4 h) (Test species: r/a) (Installed LC50/4 h) (Installed to LC50/4 h) (Installed	Inhalative I	- Animocentry/piperazine SD(4 h) (rst) (No mortality observed at saturated atmosphere)
92704-11 Calcined Kaolin Implative ILC50/4 h1 [Cest process: r/a] Due to the wetted form, inhalative effects of the substance can be seen as negligible 1038-33 Benzydimethylamine Calculation was based on all deal of 000 program group) Calculation was based on all deal of orats in 500 ppm (2721 mg/m³) group and no death in all ot programs falserance. ECHA (2011). While no bases Potential Harton was based on all deal of rats in 500 ppm (2721 mg/m³) group and no death in all ot programs falserance. ECHA (2011). While no bases Potential Harton was based on all deal of rats in 500 ppm (2721 mg/m³) group and no death in all ot programs and itscharge in the substance ECHA (2011). While no bases Potential Harton was based on all deal of rats in 500 ppm (2721 mg/m³) group and no death in all ot programs and itscharge in the substance was hortness of breath, vomiting, and wheezing Sint Corrosion or Irritation Corrosion or Irritation intrinating (rabbil) (DECD TG 404; semicoclusive; 4hr-contact. undiluted) 9482-15-3 + Anorylphenol, branched Corrosion/Irritation incoresive (rabbil) (Directive 84/449/EEC 84; Post-exposure: 8 days) All tested animals showed signs of or tabil skin. Reference: Vendor (M)SDS (2005). Odf-100 Potyopropyleneol, branched Corrosion/Irritation incoresive (rabbil) (miler to OECD guideline 404) Reference: Vendor SDS 2015 Corrosion/Irritation intermitating (rabbil) (rabbil) (rabbil test deal int available) Corrosion/Irritation intermitating (ra		Reference: OFCD SIDS (2005)
Initialitye LC50/4 hl (Test species: n/a) Due to hew wetted Tom, inhalative effects of the substance can be seen as negligible 103-83-3 Benzyldimethytamine Inhalative LC50/4 hl (2.05 mg/l (rat) (All animals died at 500ppm group) Calculation was based on all death of rats in 500 ppm (2721 mg/m³) group and no death in all ot arguips Relearnce: ECHA (2011). • Potentia Benzole for Clearners: ECHA (2011). • Potentia Benzole for Clearners: ECHA (2011). • Potentia Indicative LC50/4 hl (Test species: n/a) Groups Relearners: ECHA (2011). • Potentia Indicative Indicative Soft breath, vomiting, and wheezing cough, headache, nausea, shortness of breath, vomiting, and wheezing corrosion/intration Stin Corrosion or Intration 21645-512 Aluminum hydroxide Corrosion/Intration Corrosion/Intration Corrosion/Intration 21645-512 Aluminum hydroxide Corrosion/Intration Individing (rabbit) (DeCD TG 404; semicoclusive; 4hr-contact; undiluted) Editor 24852-15-3 A-Honylphenol, branched Corrosion/Intration Individing (rabbit) (DecD TG 404; semicoclusive; 4hr-contact; undiluted) Editor 24852-15-3 A-Bonylphenol, branched Corrosion/Intration Individies and mains showed signs of erythema, edema, and eschar which were not fully reversible within All setset animals showed signs of erythema, edema, and eschar which were not fully reversible within Polyamide CAS. Data valiable ber 29CFR1910,1200(I) Corrosion/Intration Individies and and the available) The substance was an tratisting to rabbit skin. Reference: Vendor (MJSDS (2005). The substance was an ta	92704-41-1	
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103-83-3 benzytelimeinylamine inhalative LG0/4 hf 2.05 mg/(rat) (All animals died at 500pm group) Calculation was based on all death of rats in 500 ppm (2721 mg/m³) group and no death in all ot groups Reference: ECHA (2011). Potential Health Effect(s): While not possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): msezing sore throat diarmea Since Transmission and the acute inhalative hazard due to missing data, the product may cause the following symptom(s): msezing sore throat diarmea Carosion/Intation inot initiating (rabbit) (OECD TG 404; semicoclusive; 4hr-contact; undiluted) Md82-16 - 4 Mannum hydroxide Carosion/Intation inot initiating (rabbit) (OECD TG 404; semicoclusive; 4hr-contact; undiluted) Md82-16 - 4 Montyphenot. branch days. Reference: EUCLID Dataset (2000) Polyamide CAS not available per 20CFR1910.1200() Corrosion/Intation [not initiating (rabbit) (Ist detail not available) The substance was not classified as irritating to rabbit skin. Reference: Vendor (M)SDS (2005). 9046-10-0 Polyotypoproplane/diamine Corrosion/Intation [not initiating (rabbit)] The substance was not classified as irritating to rabbit skin. Reference: ECHA (2011). 140-31-8 H(2-Aminoethylpiperazine Corrosion/Intation [corrosive (rabbit)] The substance was classified as irritating to skin (Category 1). Reference: OECD SIDS (2005). 904-10-0 Polyotypoprophenoty sate Corrosion/Intation [corrosive (rabbit)] The substance was classified as irritating to skin (Category 1). Reference: OECD SIDS (2005). 904-10-0 Polyotypophenotyperazine Corrosion/Intation [corrosive (rabbit)] The substance was classified as irritating to skin (Category 1). Reference: OECD SIDS (2005). 904-40-10 Corrosive (rabbit)] The substance was classified as irritating to skin (Category 1). Reference: OECD SIDS (2005). 904-40-10 Corrosive (rabbit)] The substance was classified as irritating to skin (Category 1). Reference: OECD SIDS (2005). 904-40-10 Corrosive (rabbit)] The substance was classified a		Due to the wetted form, inhalative effects of the substance can be seen as negligible
Inhalative LC504 h 205 mg/l (rat) (All animals died at 500ppm grup) Galcularition was based on all death of rats in 500 ppm (2721 mg/m³) group and no death in all ot groups Reference: ECHA (2011). Potential Healt Effect(s): While not possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): nasad discharge sore threat diarrhea cough, headache, nausea, shortness of breath, vomiting, and wheezing Skin Corrosion or Initation 21645-512 Aluminum hydroxide Corrosion/Initation [not initiating (rabbit) (DECD TG 404; semiocclusive; 4hr-contact; undiluted) 44852-153 4-Nonytphenol, branched Corrosion/Initiation [not initiating (rabbit) (DECD TG 404; semiocclusive; 4hr-contact; undiluted) 44852-153 4-Nonytphenol, branched Corrosion/Initiation [not initiating (rabbit) (DECD TG 404; semiocclusive; 4hr-contact; undiluted) 44852-153 4-Nonytphenol, branched Corrosion/Initiation [not initiating (rabbit) (DECD TG 404; semiocclusive; 4hr-contact; undiluted) 44852-153 4-Nonytphenol, branched Corrosion/Initiation [not initiating (rabbit) (DECD TG 404; semiocclusive; 4hr-contact; undiluted) 44852-153 4-Nonytphenol, branched Corrosion/Initiation [notified [rabbit] (DECD TG 404; semiocclusive; 4hr-contact; undiluted) 44852-153 4-Nonytphenol, branched Corrosion/Initiation [notified [rabbit] (DECD TG 404; semiocclusive; 4hr-contact; undiluted) 44852-153 4-Nonytphenol, branched Corrosion/Initiation [notified [rabbit] (DECD TG 404] Reference: Vendor SDS 2015 806-67-Bisphenol A Corrosion/Initiation [not initiating (rabbit)] The substance was a loci satified as irritating to skin. Reference: Vendor (M)SDS (2005). 82704-41-1 Cachend Kaolin Corrosion/Initiation [not initiating (rabbit)] Corrosion/Initiation [not initiating (rabbit)] 176 esubstance was classified as irritating to skin. Reference: CECHA (2011). 176 esubstance was classified as irritating to rabbit skin (Category 1). Reference: OECD SIDS (2005). 82704-41-1 Cachend Kaolin Corrosion/	103-83-3 Be	17vldimethylamine
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Potential Health Effect(s): While not possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): masal discharge sore throat diarhea cough, headache, nausea, shortness of breath, vomiting, and wheezing "Skin Corrosion or Irritation Teleform or Irritation Teleform or Irritation Corrosion/Initiation [not irritating (rabbit) (DECD TG 404; semiocclusive; 4hr-contact; undiluted) B482-15-3 4Nonylphenol, branched Corrosion/Initiation [corrosive (rabbit) (DECD TG 404; semiocclusive; 4hr-contact; undiluted) B482-15-3 4Nonylphenol, branched Corrosion/Irritation [corrosive (rabbit) (DECD TG 404; semiocclusive; 4hr-contact; undiluted) B482-15-3 4Nonylphenol, branched Corrosion/Irritation [corrosive (rabbit) (DECD TG 404; semiocclusive; 4hr-contact; undiluted) All tested animals showed signs of erythema, edema, and eschar which were not fully reversible within Polyamide CAS not available per 29CPF101.1200(I) Corrosion/Irritation [moderate (Test Species. n/a) Organophosphorous satt Corrosion/Irritation [corrosive (rabbit) (lest detail not available) The substance was not classified as irritating to skin. Reference: Vendor (M)SDS (2005). Soft for theol. (Soft anime to OECD guideline 404) Corrosion/Irritation [corrosive (rabbit) (US DOT Corrosivity Assay) The substance was classified as irritating to skin. Reference: ECHA (2011). The substance was classified as corrosive to rabbit skin (Category 1). Reference: OECD SIDS (2005). Soft for theol (Path) Reference: ECHA (2011). The substance was classified as corrosive to rabbit skin (Category 1). Reference: OECD SIDS (2005). Soft for theol (Path) (DCC D TG 404) Reference: ECHA (2011). The substance was classified as acrosive to rabbit skin (Category 1). Reference: OECD SIDS (2005). Soft for theol (Path) (DCC D TG 404) Reference: ECHA (2011). The substance was classified as acrosive to		Calculation was based on all death of rats in 500 ppm (2721 mg/m³) group and no death in all ot groups.Reference: ECHA (2011).
While not possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): nasal discharge specified sp	Pot	ntial Health Effect(s):
nase discharge sneezing a diarthea cough, headache, nausea, shortness of breath, vomiling, and wheezing	Whi	not possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s):
security and a security and a security of the	nasa	discharge
diarrhea cough, headache, nausea, shortness of breath, vomiting, and wheezing : Skin Corrosion or Irritation Corrosion/Irritation Inot Irritating (rabbil) (DECD TG 404; semiooclusive; 4hr-contact; undiluted) 4852-153 4 Noorybhenol, branched Corrosion/Irritation Inorosive (rabbil) (Directive 8/4/49/EC 64, Post-exposure: 8 days) All tested animals showed signs of err/thema, edema, and eschar which were not fully reversible withit days, Reference: IUCLID Dataset (2000). Corrosion/Irritation Imoderate (Test species: n/a) Corrosion/Irritation Imoderate (Test species: n/a) Corrosion/Irritation Imoderate (Test species: n/a) Corrosion/Irritation Inot irriteting (rabbil) (similar to OECD guideline 404) Reference: Vendor SDS 2015 S046-10-4 Poly(oxypropylene)diamine Corrosion/Irritation In corrosive (rabbil) (similar to OECD guideline 404) Reference: Vendor SDS 2015 S045-10-4 Poly(oxypropylene)diamine Corrosion/Irritation In corrosive (rabbil) (Similar to OECD guideline 404) Reference: Vendor SDS 2015 S045-10-4 Poly(oxypropylene)diamine Corrosion/Irritation In corrosive (rabbil) (US DOT Corrosivity Assay) The substance was not classified as irritating to skin. Reference: ECHA (2011). 140-31-8 N-(2-Aminoethyl)piperazine Corrosion/Irritation In corrosive (rabbil) (US DOT Corrosivity Assay) The substance was classified as corrosive to rabbil skin (Category 1). Reference: OECD SIDS (2005). 5270-41-1 Calcined Kaolin Corrosion/Irritation In corrosive (rabbil) (DECD TG 404) Reference: ECHA (2011). 103-43-3 Benzydimethylamine Corrosion/Irritation In corrosive (rabbil) (DECD TG 404) Reference: ECHA (2011). 104-51-51-2 Aluminum hydroxide Damage/Irritation In or irritating (rabbil) The substance was aleased as a serious yee irritation (Category 1). Reference: IUCLID Dataset (2000). 176-52 Statistic as a deverse skin burns 176-52 Statistic as a deverse skin burns 176-55-51-51-51-51 (Categov 1). 176-5000000000000000000000000000000000000	SILE	
Cough, headache, nausea, shortness of breath, vomiting, and wheezing : Skin Corrosion or Initiation 21645-51-2 Aluminum hydroxide Corrosion/Initiation Corrosion/Initiation Corrosion/Initiation Corrosion/Initiation Corrosion/Initiation Corrosion/Initiation Corrosion/Initiation Downsove (rabbit) Polyamide CAS not available per 29CFR1910.1200(i) Corrosion/Initiation Corrosion/Initiation The substance was not initiating to rabbit skin. Reference: Vendor (M)SDS (2005). 9046-10- Poly(Oxypropylee)diamine Corrosion/Initiation Corrosion/Initiation Corrosion/Initiation Ino Iritriating (rabbit) The substance was not initiating to rabbit skin. Reference: Vendor (M)SDS (2005). 9046-10- Poly(Oxypropylee)diamine Corrosion/Initiation Corrosion/Initiation Corrosion/Initiation Ino Iritriating (rabbit) The substance was not classified as irritating to skin. Reference: ECHA (2011). 140-31-8 Nt_2Amineethylipperazine Corrosion/Initiation Corrosion/Initiation Ino Iritriating (rabbit)	dian	nea
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21645-51-2 Aluminum hydroxide Corrosion/irritation ind irritating (rabbit) (OECD TG 404; semiocclusive; 4hr-contact; undiluted) 4482-153 4-Nonylphenol, branched 4822-153 4-Nonylphenol, branched Corrosion/irritation inderate (Test years) (CLU Dataset (2000)) Corrosion/irritation inderate (Test years) (Similar to OECD guideline 404) The substance was not irritating to rabbit skin. Reference: Vendor (M)SDS (2005). 5046-10-0 Poly(oxyproylene)diamine Corrosion/irritation inderate (Test years) (Similar to OECD guideline 404) Reference: Vendor SDS 2015 80-05-7 Bisphenol A Corrosion/irritation inder trading (rabbit) The substance was not classified as irritating to skin.Reference: ECHA (2011). The substance was not classified as irritating to skin.Reference: CEHA (2011). The substance was not classified as irritating to skin.Reference: OECD SIDS (2005). 52704-41-1 Calcined Kaolin Corrosion/irritation in corrosive (rabbit) (US DOT Corrosivity Assay) The substance was classified as corrosive to rabbit skin (Category 1). Reference: OECD SIDS (2005). 52704-41-1 Calcined Kaolin Corrosion/irritation in corrosive (rabbit) (OECD TG 404) Reference: ECHA (2011). 70 carsison/irritation in corrosive (rabbit) (CCD TG 404) Reference: ECHA (2011). 70 carsis severe skin burns and eye damage. In corract with skin, may cause : Eye Serious Damage or irritation 2164-51-2 Aluminum hydroxide Damage/irritation in to ristation to rabbit were so CECD Test Guideline 405 4452-15-3 4-Nonylphenol, branched Damage/irritation in deviation to rabbit yes OECD Test Guideline 405 4452-15-3 4-Nonylphenol, branched Damage/irritation in deviation to rabbit yes CECD Test Guideline 405 4452-15-3 4-Nonylphenol, branched Damage/irritation is serious and as classified as serious eye irritant (Category 1).Reference: IUCLID Dataset (2000). 70 panetae (Test yeare: 7a) 70 caro	Skin Co	rosion or Irritation
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Value Value <td< td=""><td>Corrosion/In</td><td>namman parometer (rabbit) (OECD TG 404: semiocclusive: 4hr-contect: undiluted)</td></td<>	Corrosion/In	namman parometer (rabbit) (OECD TG 404: semiocclusive: 4hr-contect: undiluted)
Corrosion/Irritation corrosive (rabbit) (Directive 84/449/EEC B4; Post-exposure: 8 days) All tested animals showed signs of erythema, edema, and eschar which were not fully reversible withi days.Reference: ILOLID bataset (2000). Polyamide CAS not available per 29CFR1910.1200(I) Corrosion/Irritation moderate (Test species: n/a) Organophosphorous salt Corrosion/Irritation moderate (Test species: n/a) Organophosphorous salt Corrosion/Irritation not irritating (rabbit) (test detail not available) The substance was not irritating to rabbit skin. Reference: Vendor (M)SDS (2005). 9046-10- PO(yoxyropy/ene)diamine Corrosion/Irritation not irritating (rabbit) Reference: Vendor SDS 2015 80-05-7 Bisphenol A Corrosion/Irritation not irritating (rabbit) The substance was not classified as irritating to skin.Reference: ECHA (2011). 140-31-8 N(2-Aminoethyl)piperazine Corrosion/Irritation corrosive (rabbit) (US DOT Corrosivity Assay) The substance was classified as corrosive to rabbit skin (Category 1). Reference: OECD SIDS (2005). 92704-41-1 Calcined Kaolin Corrosion/Irritation corrosive (rabbit) (DECD TG 404) Reference: ECHA (2011). 1703-83-3 Benzyldimethylamine Corrosion/Irritation corrosive (rabbit) (OECD TG 404) Reference: ECHA (2011). • Potential Health Effect(s) • Causes severe skin burns • Eye Serious Damage or Irritation 21645-51-2 Aluminum hydroxide Damage/Irritation or irritating (rabbit) No eye Irritation carboit eyes OECD Test Guideline 405 84852-15-3 4 - Nonylphenol, branched Damage/Irritation serious irrit. (rabbit) (Draize Test) The substance was classified as asoicus eye irritant (Category 1).Reference: IUCLID Dataset (2000). POlyamide CAS not available per 29CFR1910.1200(J) Damage/Irritation moderate (Test species: n/a) 07ganophosphorous sat Damage/Irritation serious damage (rabbit) (Draize Test) The substance was classified as a serious eye irritant (Category 1).Reference: IUCLID Dataset (2000). POlyamide CAS not available per 29CFR1910.1200(J) Damage/Irritation serious damage (rab	94952-15-2	Allon not imitaling (nabol) (0000 10 404, Semocodswe, 4m-contact, undirated)
Consistent matching is a serie of the series	04052-15-5	-nonyiprienoi, brancheu
Intersection Intersection Polyamide CAS not available per 29CFR1910.1200(i) Corrosion/Irritation moderate (Test species: n/a) Organophosphorous sait Corrosion/Irritation moderate (Test species: n/a) Ode-10-0 Polycoxpropylene/diamine Corrosion/Irritation moderate (Test species: n/a) Ode-10-0 Polycoxpropylene/diamine Corrosion/Irritation mot irritating (rabbit) The substance was not classified as irritating to skin.Reference: ECHA (2011). 140-31-8 N(2-Aminoethyl)piperazine Corrosion/Irritation corrosive (rabbit) (US DOT Corrosivity Assay) Corrosion/Irritation corrosive (rabbit) (ID COT Corrosivity Assay) Corrosion/Irritation corrosive (rabbit) (OECD TG 404) Reference: ECHA (2011). 103-33-3 Benzyldimethylamine Corrosion/Irritation corrosive skin burns - Eyee Serious Damage or Irritation Corrosion/Irritation corrosive (rabbit) (DECD TG 404) Reference: ECHA (2011).	Corrosion/In	Allion Convosive (Tabbil) (Directive 64/449/EEC 64, PC/64/exposite 8 0 days)
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Reference: Vendor SDS 2015.	Damage/Irri	nton serious damage (rabbit) (similar to OECD Guideline 405)
		Reference: veridor SDS 2015.

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Safety Data Sheet acc. to OSHA HCS

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Revision Date 01/28/2016

80-05-7 Bisphenol A (Contd. df.page.1) Demage/miation serious damage (rabbil) (OECD TG 405) (The st)based on the classification criteria Reference: ECHA 170-91-16 H/2-Aminoedhy/jp/perazine (Demage/miation) (Demage/miation) Demage/miation serious damage (rabbil) (Net substance applied to rabbit eyes caused extensive irritation in the conjunctiva and corree, which most likely 22704-11-12 Calcineer Kaching (This, the substance was not irritating to rabbit eyes based on the classification criteria Reference: ECHA (2011). 109-83-3 Benzyldimethy/amine (This, the substance was not irritating to rabbit eyes based on the classification criteria Reference: ECHA (2011). 109-83-3 Benzyldimethy/amine (Perantial Healt) Effect(s): (Contd. and page.2) Carbose service service and strange. (Contd. and page.2) (Contd. and page.2) 27665-51-2 Auminum hydroxide (Contd. and page.2) (Contd. and page.2) Sensitization (Shim) (Conta available) (Contd. and page.2) 27665-51-2 Auminum hydroxide (Contd. and page.2) (Contd. and page.2) 27665-51-2 Auminum hydroxide (Contd. and page.2) (Contd. and page.2) 27665-51-2 Auminum hydroxide (Contd. and page.2) (Contd. and page.2) 27665-51-2 Auminum hydr	Trade Name: EP1340 B	
B0-67-7 Bisphenol A (Units and Quarks) Damage/Initiation serious damage (rabbil) (DECD TG 405) Damage/Initiation serious damage (rabbil) (DECD TG 405) Damage/Initiation serious damage (rabbil) (Decomposition of the classification criteria Reference: ECHA Damage/Initiation serious damage (rabbil) (Net substance applied) Damage/Initiation serious damage (rabbil) (Net substance applied) Damage/Initiation (rabbil) (Net substance was not initiating to rabbit eyes based on the classification criteria Reference: ECHA (2011). Damage/Initiation (rabbil) (Decremon CeCCO 105% Gose) Poential Health Effect(s): Crusses serious eye damage: Crusses serious eye damage: (Decremon CeCCO 105% Gose) Poential Health Effect(s): Crusses serious eye damage: Crusses serious eye damage: (Decremon CeCCO 105% Gose) Poential Health Effect(s): Crusses serious eye damage: Crusses serious eye damage (rabbil) (Decremon CeCCO 105% Gose) Poential Health Effect(s): Crusses serious eye damage: Crusses serious eye damage (rabbil) (Decremon CeCCO 105% Gose) Poential Health Effect(s): Crusses eyee daes eye eyee	(Cont	d of page 7)
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140-31-6 NL2-Amineethylipiperazine Damagel/million Damagel/million Damagel/million Series Series Series Series Series Series Damagel/million Series Damagel/million Totas Banagel/million Totas Damagel/million Service Causes Service Causes Service Causes Service Service Service	Damage/Irritation serious damage (rabbit) (OECD TG 405) The substance was classified as a serious eye irritant (Category 1) based on the classification criteria.Refere (2011).	nce: ECHA
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92704-11-1 Calcined Kaolin Damage Internet Information 103-33-32 Beruy/dimethylamine Damage Internet Informative Interversible corneal damage after a 0.5% dose) Reference: ECHA (2011). - Potential Heatti Effect(s): Control Interversible corneal damage after a 0.5% dose) Reference: ECHA (2011). - Potential Heatti Effect(s): Control Interversible corneal damage after a 0.5% dose) Reference: ECHA (2011). Patter Corneal Interversible corneal damage after a 0.5% dose) Reference: ECHA (2011). Patter Corneal Interversible corneal damage after a 0.5% dose) Reference: ECHA (2011). Patter Corneal Interversible corneal damage after a 0.5% dose) Sensitization Sensitization Sin Interversible corneal damage after a 0.5% dose) Respiratory (The data swale) On data swale) Guinea pig maximization flexible effects of the substance was not classified as a skin sensitizer (Reference: ECHA (2011). Respiratory (The data swale) Guinea pig maximization flexible effects of the substance can be seen as negligible. 94452-152 + Nonythenol, branched Generatization Guinea pig maximization flexible eff	Damage/Irritation serious damage (rabbit) Neat substance applied to rabbit eyes caused extensive irritation in the conjunctiva and cornea, which resulted in permanent blindness. Reference: OECD SIDS (2005).	most likely
Damage/Initiation [/fabbi] 103-833 Benzyldineutrylamine Damage/Initiation jeroids damage (rabbi) (inteversible comeal damage after a 0.5% dose) - Potential Health Effect(s): Causes serious series (rabbi) (inteversible comeal damage after a 0.5% dose) - Respiratory or Skin Sensitization - Respiratory or Skin Sensitization - Respiratory or Skin Sensitization - Respiratory or Skin Sensitization - Respiratory or Skin Sensitization - Respiratory or Skin Sensitization - Respiratory or Skin Sensitization - Respiratory or Skin Sensitization - Respiratory (No data available) - Respiratory (No data available) - Bestization Skin - Respiratory (No data available) - Respiratory (No data available) - Respiratory (No data available) - Respiratory (No data available) - Respiratory (No data available) - Organophocyphorous skin - Respiratory (No data available) - Organophocyphocyphocypho	92704-41-1 Calcined Kaolin	
103-83-3 Benzydimethylamine Damagelinitation periods Ramge (rabbit) (inreversible corneal damage after a 0.5% dose) - Potential Ineality Effect(s). Causes serious every damage. In contact with eye, may cause: decrease or loss of vision decrease	Damage/Irritation (rabbit) Thus, the substance was not irritating to rabbit eyes based on the classification criteria.Reference: ECHA (201	1).
Damage/initiation jerous damage (rabbi) (irreversible comeal damage after a 0.5% dose) Pression is CPCA (2011) Reference: Cusses in the initiation of t	103-83-3 Benzyldimethylamine	
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Latests services of usion decrease or loss of usion redness, pain and severe deep burns redness, pain and severe deep burns redness, pain and severe deep burns redness, pain and severe deep burns like Sensitization Sensitization Skin Respiratory of Skin Group development Mo deta evailable) Due to wetted form, inhalative effects of the substance can be seen as negligible. 4485:15:3 - 4-Monylphenol, branched Sensitization Sensitization Sensitization Skin Inot sensitizing (guinea pig) (Buehier test with OECD TG 406) Guinea pig maximization test - negative Reference: IUCLID Dataset (2000). Respiratory (No data available) 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:0000 00:60:00000 00:60:00000 00:60:00000 00:60:00000 00:60:000000000 00:60:00000000000000000000000000000000	Potential Health Effect(s):	
rechrease or los of vision redness, pain and severe deep burns - Respiratory or Skin Sensitization 21645-51-2 Aluminum hydroxide Sensitization Skin ind sensitizing (guinea pig) (OECD TG 406; intradermal and epicutaneous) Skin sensitizing feaction was not observed; the substance was not classified as a skin sensitizer. Reference: Respiratory Ove data available) Due to wetted form, inhalative effects of the substance was not classified as a skin sensitizer. Reference: Respiratory (Ne data available) Due to wetted form, inhalative effects of the substance can be seen as negligible. 34652:15:3 - Monylphenol, branched Sensitization Skin inot sensitizing (guinea pig) (OECD TG 406) Guinea pig maximization test - negative Reference: IUCLID Dataset (2000). Respiratory (Ne data available) 3046:10:-0 Polyocypropylenol Respiratory (Ne data available) 3047:10:-0 Polyocypropylenol Respiratory (Ne data available) 3047:10:-10:-10: 10:-10:-10:-10:-10:-10:-10:-10:-10:-10:-	Causes serious eye damage. In contact with eye may cause:	
redness, pain and severe deep burns Respiratory or Skin Bensitization 21645-51-2 Aluminum hydroxide Respiratory or other Bensitization Sensitization Skin Respiratory (No date available) Due to wetted form, inhalative effects of the substance can be seen as negligible. 4452-15-3 - Honryphenot, branched Guinea pig maximization fest - negative Reference: IUCLID Dataset (2000). Respiratory (No date available) Sensitization Skin Inot sensitizing (guinea pig) (Buehler test with OECD TG 406) Respiratory (No date available) Respiratory (No date	decrease or loss of vision	
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21645-51-2 Aluminum hydroxide Sensitization Skin Sensitization Skin Respiratory Not sensitizing (guinea pig) (OECD TG 406; Intradermal and epicutaneous) Respiratory Note on busefied form, inhelative effects of the substance was not classified as a skin sensitizer.Reference: 24452-15-34-Nontyphenol, branched Sensitization Skin not sensitizing (guinea pig) (Buehler test with OECD TG 406) Guinea pig marmitation (stin earlied form, inhelative effects of the substance can be seen as negligible. 24652-15-34-Nontyphenol, branched Sensitization Skin Skin not sensitizing (guinea pig) (OECD Test Guideline 406) Respiratory (No data available) Respiratory (No data available) 2064-10-0 Poly(oxypropylene)diamine Sensitization Respiratory (No data available) Respiratory (No data available) 20-05-7 Bisphenol A Sensitizating (Guinea pig) (OECD TG 406) Sensitization Skin Skin sensitizing (Guinea pig) (OECD TG 406) Respiratory (No data available) Sensitization (Skin Sensitizing (Guinea pig) (OECD TG 429; Read-across from 1335-30-4) Reference: ECHA (2011) Reference: ECHA (2011) Reference: ECHA (2017) Reference: ECHA	Respiratory or Skin Sensitization	
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B482-15-3 4-Monylphenol, branched inot sensitizing (guinea pig) (Buehler test with OECD TG 406) Guinea pig maximization test - negative Reference: IUCLID Dataset (2000). Organophosphorous salt inot sensitizing (guinea pig) (OECD Test Guideline 406) Respiratory (No data available) 9046-10- Poly(oxpreyrepylene)diamine inot sensitizing (guinea pig) (OECD Test Guideline 406) Respiratory) (No data available) 80-05-T Bisphenol A sensitizing (Human) (Patch Test) For safety reasons, the substance was classified as a dermal sensitizer (Category 1).Reference: ECHA (2011) and IUCLID Dataset (2000). 140-31-8 M-2 Aminoethylipoperatine sensitizing (guinea pig) (OECD TG 406) Was classified as exist sowaidable) 92704-41-1 Calcined Kaolin sensitizing (guinea pig) (OECD TG 429; Respiratory) (No data available) 92704-41-1 Calcined Kaolin not sensitizing (guinea pig) (OECD TG 429; Read-across from 1335-30-4) Reference: ECHA (2011). Respiratory (Test species: n/a) Due to the wetted form, inhalative effects of the substance can be seen as negligible. 103-83-3 Benzyldimethylenine Was classification for segnitatory (Skin rash or itchiness: No relevant information for respiratory sensitization) None of the ingradients is listed. 0-60-77 Edit Mitagonicity sensitization (classification is not possible. 054-62 (OCCD tertor SP/31/EECC, B12) May cause an allergic skin reaction. Reference: ECHA (2011). Respiratory (No data available) • Potinta	Respiratory (No data available) Due to wetted form, inhalative effects of the substance can be seen as negligible.	
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Ide315 Respiratory (No data available) 140-315 Nt2-Aminorethy/lpiperazine Sensitization Skin sensitizing (guinea pigs showed positive responses in the maximization tests. For safety reason, the substance was classified as a skin sensitizer (Category 1).Reference: OECD SIDS (2005). P2704-41-1 Calcined Kaolin isensitizing (mouse) (OECD TG 429; Read-across from 1335-30-4) Respiratory (Ito data available) 92704-41-1 Calcined Kaolin Sensitization Skin not sensitizing (mouse) (OECD TG 429; Read-across from 1335-30-4) Reference: Ito the wetted form, inhalative effects of the substance can be seen as negligible. 103-83-3 Benzyldimethylamine Sensitization Skin not sensitizing (guinea pig) (OECD TG 406) Reference: ECCH (2011). Respiratory (No data available) • Potential Health Effect(s): May cause an allergic skin reaction. Repeated skin contact may cause dermatitis, skin rash or itchiness. Nor relevant information for respiratory sensitization; classification is not possible. • OSHA-Ca (Occupational Safety & Health Administration) None cell Mutagenicity Nore cell Mutagenicity Cerm Cell Mutagenicity • Germ Cell Mutagenicity Regative (rMo Directive 79/831/EEC, B12))	Sensitization Skin sensitizing (Human) (Patch Test) For safety reasons, the substance was classified as a dermal sensitizer (Category 1).Reference: EC and IUCLID Dataset (2000).	CHA (2011)
140-31-8 N-(2-Aminoetry/)piperazine Sensitization Skin Sensitization Skin Sensitization Skin Sout of 20 guinea pigs showed positive responses in the maximization tests. For safety reason, the substance was classified as a skin sensitizer (Category 1).Reference: OECD SIDS (2005). Respiratory (No data available) 92704-41-1 Calcined Kaolin Reference: ECHA (2011). Respiratory (Test species: ECHA (2011). Reference: ECHA (2011). Reference: ECHA (2011). Respiratory (Us the wetted form, inhalative effects of the substance can be seen as negligible. 103-83-3 Benzyldimethylamine Due to the wetted form, inhalative effects of the substance can be seen as negligible. Sensitization Non the sensitizing (guinea pig) (OECD TG 406) Reference: ECHA (2011). Reference: ECHA (2011). Respiratory (No data available) • Potential Health Effect(s): May cause an allergic skin reaction. Repeated skin contact may cause dermatitis, skin rash or itchiness. No relevant information for respiratory sensitization; classification is not possible. • OSHA-Ca Occupational Safety & Health Administration) None of the ingredients is listed. • Germ Cell Mutagenicity Mutagenicity Regative (rat) <td>Respiratory (No data available)</td> <td></td>	Respiratory (No data available)	
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103-83-3 Benzyldimethylamine Sensitization Skin not sensitizing (guinea pig) (OECD TG 406) Reference: ECHA (2011). Respiratory (No data available) • Potential Health Effect(s): May cause an allergic skin reaction. Repeated skin contact may cause dermatitis, skin rash or itchiness. No relevant information for respiratory sensitization; classification is not possible. • OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. • Germ Cell Mutagenicity 21645-51-2 Aluminum hydroxide Mutagenicity Mutagenicity negative (rat) Mouse lymphocyte/Result: negative/Mutagenicity (micronucleus test) Rat - male/Result: negative 84852-15-3 4-Nonylphenol, branched Mutagenicity no mutagenic effects in mouse erythrocytes were observed during the test sampling time.Reference: IUCLID Dataset (2000). Organophosphorous salt Mutagenicity (No data available) negative (Chinese Hamster)	Respiratory (Test species: n/a) Due to the wetted form, inhalative effects of the substance can be seen as negligible.	
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May cause an anergic skill reaction. Repeated skill contact may cause dermatitis, skin rash or itchiness. No relevant information for respiratory sensitization; classification is not possible. • OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. • Germ Cell Mutagenicity 21645-51-2 Aluminum hydroxide Mutagenicity negative (rat) Moutagenicity None of the ingredients is listed. • Germ Cell Mutagenicity negative (rat) Moutagenicity negative (rat) Moutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) no mutagenic effects in mouse erythrocytes were observed during the test sampling time.Reference: IUCLID Dataset (2000). Organophosphorous salt Mutagenicity (No data available) negative (Chinese Hamster) (Contd. on page 9)	Potential Health Effect(s):	
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Germ Cell Mutagenicity 21645-51-2 Aluminum hydroxide Mutagenicity negative (rat) Mouse lymphocyte/Result: negative/Mutagenicity (micronucleus test) Rat - male/Result: negative 84852-15-3 4-Nonylphenol, branched Mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) no mutagenic effects in mouse erythrocytes were observed during the test sampling time.Reference: IUCLID Dataset (2000). Organophosphorous salt Mutagenicity (No data available) negative (Chinese Hamster) (Contd. on page 9)	None of the ingredients is listed.	
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Mutagenicity negative (rat) Mouse lymphocyte/Result: negative/Mutagenicity (micronucleus test) Rat - male/Result: negative 84852-15-3 4-Nonylphenol, branched Mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) no mutagenic effects in mouse erythrocytes were observed during the test sampling time.Reference: IUCLID Dataset (2000). Organophosphorous salt Mutagenicity (No data available) negative (Chinese Hamster) (Contd. on page 9)	21645-51-2 Aluminum hydroxide	
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Organophosphorous salt Mutagenicity (No data available) negative (Chinese Hamster) (Contd. on page 9)	Mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) no mutagenic effects in mouse erythrocytes were observed during the test sampling time.Reference: IUCLID Data	set (2000).
Mutagenicity (No data available) negative (Chinese Hamster) (Contd. on page 9)	Organophosphorous salt	
(Contd. on page 9)	Mutagenicity (No data available) negative (Chinese Hamster)	
	(Conto	I. on page 9)



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Revision Date 01/28/2016

Print Date 01/28/2016

Trade Name: EP1340 B

0046 40 0 5	(Contd. of page
9046-10-0 PC	iy/oxypropyiene/alamine
Mutagenicity	
80-05-7 Bisp	nenoi A
mutagenicity	negative (saimonella typnimunum) (in vitro (Ames tests))
	negative (mouse) (in vivo (micronucleus assay)) Ween considering all of the evidence, the subfance was not classified as a mutagen Beference: CCPIS (2011)
140-21-9 N-(
Mutagenicity	
mulayemicity	In grane (Indinan) (in Vino Gologenic Assay with OLOB 16 473). In Vitro (Salmonella typhimurum: OECD TG 471) - Negative with and without metabolic activation
	na vito (danionani opinimini, obbi robini) nogative with and without includence delivation
	When considering all of the evidence, the substance is not classified as a mutagen. Reference: OECD SIDS (2005) ar
	IUCLID Dataset (2000).
92704-41-1 C	Calcined Kaolin
Mutagenicity	(Test species listed below)
	The substance can be considered as non-mutagenic.Reference: ECHA (2011).
103-83-3 Ber	nzyldimethylamine
Mutagenicity	Negative (salmonella typhimurium) (In Vitro (bacterial reverse mutation assay))
	Negative (mouse) (In Vivo (micronucleus assay))
	Reference: ECHA (2011).
· Poter	ntial Health Effect(s): No further relevant information; classification is not possible.
Carcinog	<i>ienicity</i>
21645-51-2 A	luminum hydroxide
Carcinogenici	ty negative (Human)
	The substance was not regulated as a carcinogen by IARC, NTP, or OSHA. Reference: ECHA (2011).
84852-15-3 4	-Nonylphenol, branched
Carcinogenici	ity negative (Test species: n/a) (not listed as a Carcinogen by NTP, IARC or OSHA)
Ū.	Reference: Hexion (M)SDS (2004).
Polyamide C	AS not available per 29CFR1910.1200(i)
Carcinogenici	ty (Test species: n/a)
	This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0
	percent or greater
Organophos	phorous salt
Carcinogenici	ty (Test species: n/a) (Not listed as a carcinogen by IARC, NTP, or OSHA.)
9046-10-0 Pc	ly(oxypropylene)diamine
Carcinogenici	ty negative (Test species: n/a) (not listed as a Carcinogen by NTP, IARC or OSHA)
80-05-7 Bisp	henol A
Carcinogenic	ty negative (mouse) (no carcinogenic effect with 1mg/kg/d for life-time)
	When considering all of the evidence, the substance was not classified as a carcinogen.
	Reference: CCRIS (2011) and IOCLID Dataset (2000).
140-31-8 N-(2	-Aminoetnyi)piperazine
Carcinogenici	ty negative (Test species: n/a) (not listed as a Carcinogen by NTP, TARC or OSHA)
92704-41-1 C	alcined Kaolin
Carcinogenici	ty (rat)
	The substance was not classified as a carcinogen. Reference: ECHA (2011).
Amino ether	-CAS withheld per 29CFR1910.1200(i).
Carcinogenici	ty (Test species: n/a)
	Protect or contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of C
102 02 2 0	
Coroinogoria	izyranneuryrannine iwy Norgeliwy (Toots appoint) not listed op o Corpingen by NTD (ADC or OCUA)
Carcinogenici	ty [regative [rest species: n/a] (not listed as a carcinogen by NTP, IARC or OSHA)
Poter	nual nearn Errect(s): Not a known Carcinogen.
Reprodu	
21645-51-2 A	luminum hydroxide
Reproductive	Toxi. negative (rat) (OECD TG 414; oral; 10 day-treatment; twice/day)
0.4050	I Reference: ECHA (2011).
84852-15-3 4	-Nonylphenol, branched
Reproductive	Toxi. positive (rat) (NOAEL (oral) = 15 mg/kg/day)
	Inere were adverse effects on pups observed at the non-maternally toxic doses; the substance was therefore ensight a substance was therefore the parameter and the parameter and the public (2010) and EFACE (CLP (2012)
Organophos	Indesting as a suspected reproductive nazard by LO. Nelefelice. LFATIEVIS (2010) and NEAOHOEP (2012).
Depresting	
Reproductive	
9040-10-0 PC	iyyoxypropylenejalamine
Reproductive	I oxi. I not impairing (Test species listed below) (OECD 421/422)
	Ine results of animal studies gave no indication of a fertility impairing effect. The results were determined in Screaning Test
	Reference Vendor SDS 2015
80-05-7 Rico	hand A
Reproductive	Toxi suspected (Rats and Mice)
Reproductive	Suspected of damaging fertility or the unborn child RTECS contains reproductive data for this substance
	(Contd on page



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Trade Name: EP1340 B
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140-31-8 N-(2-Aminoethyl)piperazine
Reproductive Toxi. negative (rat) (OECD TG 422; No reproductive performance observed) Reference: ECHA (2011).
92704-41-1 Calcined Kaolin
Reproductive Toxi. negative (rabbit) Reference: ECHA (2011).
103-83-3 Benzyldimethylamine
Reproductive Toxi. Negative (rat) (No reproductive effects observed after oral doses) Reference: ECHA (2011).
Potential Health Effect(s): Suspected of damaging fertility or the unborn child
Specific Target Organ Toxicity - Single Exposure
21645-51-2 Aluminum hydroxide
STOT-Single Target: None (rat) (No mortality or any adverse effect observed) No mortality or any adverse effect was observed after a single oral administration of 2000 mg/kg to rats.Reference: ECHA (2011).
84852-15-3 4-Nonylphenol, branched
STOT-Single (No data available)
Organophosphorous salt
STOT-Single (No data available)
9046-10-0 Poly(oxypropylene)diamine
STOT-Single (No data available)
80-05-7 Bisphenol A
STOT-Single (rat) (Respiratory tract irritation via inhalation) Reference: IUCLID Dataset (2000).
140-31-8 N-(2-Aminoethyl)piperazine
STOT-Single Target: N/A (rat) (conclusive but not sufficient for classification) ECHA concluded substance data as conclusive but not sufficient for classification. Reference: ECHA (2011).
92704-41-1 Calcined Kaolin
STOT-Single (rat)
103-83-3 Benzyldimethylamine
STOT-Single N/A (rat) Reference: ECHA (2011).
• Potential Health Effect(s): No further relevant information; classification is not possible. Some target organs may be exclusive due to low concentration of the hazardous component(s).
· Specific Target Organ Toxicity - Repeated Exposure
21645-51-2 Aluminum hydroxide
STOT-Repeated Target: None (rat) (OECD TG 407; neat substance; 28 days; oral) NOAEL (male rats) = 302 mg/kg bw/day: No mortality or any adverse effect was observed at daily doses up to 302 mg/kg body weight to rats. Reference: ECHA (2011).
84852-15-3 4-Nonylphenol, branched
STOT-Repeated (rat) (Target: Kidney via Oral routes) NOAEL (oral, 90 days) = 50 mg/kg/day; there were renal tubular epithelial degeneration and renal tubular dilatation observed from the test animals.
Reference: Huntsman (M)SDS (2009); EPA HPVIS (2010); TUCLID Dataset (2000) and GHS-J (2006).
Organopnosphorous sait
STOT-Repeated (rat) Species: Rats (Male/Female), male and female NOAEL: > 1,000 mg/kg Application Route: oral (gavage) Exprosure time: 20
Number of exposures: 28 Method: OECD Test Guideline 407 GLP: yes
9046-10-0 Poly(oxypropylene)diamine
SIOI-Repeated (No data available)
80-05-7 Bisphenol A
STOT-Repeated Target: N/A (rat) (conclusive but not sufficient for classification) ECHA concluded subtance data as conclusive but not sufficient for classification.Reference: ECHA (2011).
140-31-8 N-(2-Aminoethyl)piperazine
STOT-Repeated Target: None (rat) (After repeated dermal or oral administration)

STOT Reference: OECD SIDS (2005) and ECHA (2011). 92704-41-1 Calcined Kaolin STOT-Repeated negative (rat) Reference: ECHA (2011). 103-83-3 Benzyldimethylamine STOT-Repeated Target: None (rat) (No systemic effect after repeated oral doses) Reference: ECHA (2011).

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(0	Contd. of page 10)
· Aspiration Hazard	
21645-51-2 Aluminum hydroxide	
Aspiration Hazard (No data available)	
84852-15-3 4-Nonylphenol, branched	
Aspiration Hazard (No data available)	
Organophosphorous salt	
Aspiration Hazard (No data available)	
9046-10-0 Poly(oxypropylene)diamine	
Aspiration Hazard (No data available)	
80-05-7 Bisphenol A	
Aspiration Hazard (No data available)	
140-31-8 N-(2-Aminoethyl)piperazine	
Aspiration Hazard (No data available)	
92704-41-1 Calcined Kaolin	
Aspiration Hazard (No data available)	
103-83-3 Benzyldimethylamine	
Aspiration Hazard (No data available)	
 Potential Health Effect(s): No relevant information; classification is not possible. 	

12 Ecological information	on
· Aquatic Environmental To	xicity
21645-51-2 Aluminum hyd	roxide
Algae Toxicity	> 100 mg/l (Selenastrum capricornum) (NOEC (72 hrs); OECD TG 201)
Crustacean Toxicity (static)	> 100 mg/l (Daphnia magna (water flea)) (NOEC (48 hrs); OECD TG 202)
Fish Toxicity	> 100 mg/l (Brown trout (Salmo trutta or Sea trout)) (NOEC (96 hrs); OECD TG 203)
	Reference: IUCLID Dataset (2000).
84852-15-3 4-Nonylphenol	l, branched
Algae Toxicity	0.27 mg/l (Skeletonema costatum) (EC50 (96 hrs)) (Pseudokirchneriella subcapitata)EC50 (96 hrs) = 0.41 mg/L(Scenedesmus subspicatus)EC50 (72 hrs; Algenwachstums-Hemmtest nach UBA) = 1.3 mg/L
Crustacean Toxicity	0.15 mg/l (Hyalella azteca) (EC50 (96 hrs)) (Daphnia magna (water flea))EC50 (48 hrs) = 0.035 mg/L)NOEC (21 days) = 0.024 mg/L(Mysidopsis bahia) EC50 (96 hrs) = 0.043 mg/LNOEC (28 days) = 3.9 µg/L
Fish Toxicity	0.14 mg/l (Pimephales promelas (fathead minnow)) Vendor SDS (2015)
Organophosphorous salt	
Algae Toxicity	> 180 mg/l (Scenedesmus subspicatus) (NOEC; EU 92/69/EEC C3)
Crustacean Toxicity	> 100 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs); OECD TG 202)
Fish Toxicity	> 100 mg/l (Brachydanio rerio (Zebra fish)) (LC50 (96 hrs); OECD TG 203) Based the acute LC50 > 100 mg/L, the substance is not classified as an environmental hazard.Reference: Clariant (M)SDS (2005).
9046-10-0 Poly(oxypropyle	ene)diamine
Algae Toxicity	(No data available)
Crustacean Toxicity (static)	80 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs), OECD TG 202,part 1) The details of the toxic effect relate to nominal concentration. Reference: Vendor SDS 2015
Fish Toxicity	>15 mg/l (Oncorhynchus mykiss (Rainbow trout)) (LC50 (96 hrs), OECD TG 203;semistatic) Reference: Vendor SDS (2015). Limit concentration test only. The details of the toxic effect relate to nominal concentration.
80-05-7 Bisphenol A	· · · · ·
Algae Toxicity	2.7-3.1 mg/l (Pseudokirchneriella subcapitata) (EC50 (96 hrs), EPA 600/9-78-018)
Crustacean Toxicity	10.2 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs), ASTM E729-80) 1.1 mg/L (Mysidopsis bahia) (LC50 (96 hrs); method not specified)> 3.2 mg/L (daphnia magna) (NOEC (21 days); OECD TG 202)
Fish Toxicity	4.6 mg/l (Pimephales promelas (fathead minnow)) (LC50 (96 hrs), ASTM E729-80) Based on the rapid degradability, the substance is not classified as a chronic environment hazard. Based on acute LC50 < 10 mg/l, the substance is classified as an Acute-2 environmental hazard.Reference: IUCLID Dataset (2000) and OECD SIAM (2002).
140-31-8 N-(2-Aminoethyl)	piperazine
Algae Toxicity	495 mg/l (Green Algae) (EC50 (72 hrs); OECD TG 201) Royce SDS (2015)
Crustacean Toxicity	32 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs); OECD TG 202) Based on the non-rapid degradability and the acute EC50 < 100 mg/L, the substance is classified as a Chronic-3 environmental hazard. Vendor SDS (2015)
Fish Toxicity	368 mg/l (Leuciscus idus (Ide or Orfe)) (LC50 (96 hrs)) 560 mg/l (Pimephales promelas (fathead minnow)) (LC50 (96 hrs); OECD TG 203)Reference: OECD SIDS (2005) and ECHA (2011).
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00704 44 4 0 - 1-1-	(Contd. of page 11)
92704-41-1 Calcin	led Kaolin
Crustacean Toxici	1 to mg/l (Dephnia magna (water flea)) (EC50 (96 hrs): OFCD TG 202)
Fish Toxicity	(Oncorhynchus mykiss (Rainbow trout))
	The substance is not classified as an environmental hazard.Reference: ECHA (2011) and IUCLID Dataset
103-83-3 Benzvld	Izoto).
Algae Toxicity	1.34 mg/l (Scenedesmus subspicatus) (EC50 (72 hrs); Growth rate; EU Method C3)
Crustacean Toxici	y > 100 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs); EU Method C2)
	0.789 mg/L (daphnia magna (water flea)) (NOEC (21 days); OECD TG 211)Based on the chronic NOEC < 1
Fish Toxicity	11/g/L and the full-rapid degradability, the substance is classified as a Cheronic-2 environmental nazard.
TISH TOXICITY	Reference: ECHA (2011).
· Aquatic Envir	onmental Toxicity Assessment: No further relevant information; classification is not possible.
Degradability and Degradability and	I Stability
21645-51-2 Alumi Biodegradation	num nyaroxiae
Persistence	(Introduce) add. (I sa species. Ind) (Due to being persistent) (Tast species: n(a) (The substance is persistent)
1 013/3/01/00	Reference: Canada DSL (2007).
Photodegradation	(No data available)
Stability in water	(No data available)
84852-15-3 4-Non	ylphenol, branched
Biodegradation	non-biodegrad. (Test species: n/a) (Read-across from 25154-52-3; OECD TG 301C) Biodegradation (Conc. 100 ppm; 2 weeks: Direct analysis from GC, UV, vis, HPLC) = 8.0, 5.2, 2.5%
	Biodegradation (Conc. 100 ppm; 2 weeks; Direct analysis from BOD) = 0%
	The substance is non-biodegradable.
Demisteres	Reference: NITE CHRIP (2010).
Persistence	(Test species: n/a) (The substance is not persistent) Reference: Canada DSI (2007)
Photodegradation	9.99F-11 cm ³ /molecule-sec (OH radical) (Half-life (5.0E5 OH/cm ³) = 0.3 day)
, notouogradation	Reference: IUCLID Dataset (2000).
Stability in water	(No data available)
Organophosphor	ous salt
Biodegradation	non-biodegrad. (Test species: n/a) (OECD TG 302B) The substance is non-biodegradable Reference: Vendor (MISDS
Persistence	(Test species: n/a)
	Results of PBT and vPvB assessment
	: This substance is not considered to be very persistent and very bioaccumulating (vPvB)
Photodegradation	(No data available)
Stability in water	(No data available)
9046-10-0 Poly(o)	(ypropylene)diamine
Biodegradation	non-biodegrad. (Activated Sludge) (Biodegradation (OECD TG 301A; 28 days) = 10%)
Develoteres	Reference: BASF (M)SDS (2006).
Persistence	(rest species. In/a) (rins substance is not persistent) Reference: Canada DSL (2007).
Photodegradation	(Test species: n/a) (Indirect photolysis)
C C	t1/2 (Indirect photolysis) 1.6h; OH radical
	Reference: Vendor SDS 2015
Stabilitv in water	(No data available)
	In contact with water the substance will hydrolyse slowly.
80-05-7 Dianhana	
Biodegradation	readily biodeg (Test species: n/a) (Biodegradation (OECD TG 301F)>89%)
Distagladation	It was determined to be readily biodegradable.Reference: CHRIP (2011).
Persistence	(Test species: n/a) (The substance is not persistent)
Photodogradation	Kelerence: AUTOK (2011). 8.065 11.cm³/molecule.sec (Test species: n/a)
Filolouegradation	o.ooc- i' chimmolecule-sec (rest species. fi/a) Reference: ChemlD (2011).
Stabilitv in water	(No data available)
140-31-8 N-(2-Am	inoethyl)piperazine
Biodegradation	non-biodegrad. (Test species: n/a) (Biodegradation (OECD TG 301C) < 5%)
Doroiotonoo	his substance is non-biodegradable. Reference: NITE CHRIP (2011).
Persistence	(rest species, ri/a) (rne substance is persistent) Reference: NITE CHRIP (2011)
Photodearadation	$2.14\text{E}-14 \text{ cm}^3/\text{molecule-sec}$ (OH radical) (Half-life (1.5E6 OH/cm ³) = 0.6 hours)
However, photolysis effect can be seen as negligible based on the partition of the substance to air is less than 1%	
04-1-11/4	Reference: OECD SIDS (2005).
Stability in water	STADIE (Test species: In/a) Hydrolysis is not expected under environmental conditions (nH from 5 to 0) Reference: ILICLID Dataset (2000)
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92704-41	-1 Calcined Kaolin (Cor	ntd. of page
Biodeara	ation (No data available)	
Dioucgia	As an inorganic metal compound, biodegradation of the substance is not expected.	
Persisten	ce (Test species: n/a) The substance is persistent Reference: Canada DSI (2007)	
Photodeg	radation (No data available)	
Stability i	As an inorganic metal compound, photodegradation of the substance is not expected.	
Stability I	Half-life (PH= 4, 7 and 9) > 1 year: the substance is expected to be hydrolytically stable. Reference: IU	CLID Datas
	(2000).	
103-83-3	Benzyldimethylamine	
Biodegra	lation (non-biodegrad. (Test species: n/a) (Biodegradation (OECD TG 301C) \leq 1%) The substance is not biodegradable.	
	Reference: CHRIP (2011).	
Persisten	ce (Test species: n/a) (The substance is persistent)	
Photodec	radation 8.21E-11 cm ³ /molecule-sec (OH radical)	
	Reference: ChemID Full Record (2011).	
Stability i	i water (No data available)	
Bioaccu	nulation and Distribution	
21645-51	-2 Aluminum hydroxide	
LogPow	(No data avallable)	
BUF	(Test species, fiva) (The substance is not bloaccumulative) Reference: Canada DSL (2007).	
Кос	(No data available)	
84852-15	-3 4-Nonylphenol, branched	
LogPow	3.8 - 4.8 (Test species: n/a)	
BCE	reference: IOCLID Dataset (2000). 20.330 (Cyprinus carrio). (The substance is not bioaccumulative).	
501	Reference: NITE CHRIP (2010) and IUCLID Dataset (2000).	
Кос	2580 - 25200 L/kg (Test species: n/a)	
0	Calculated from Log Koc = 0.989 LogPow - 0.346 and LogPow of 3.8 - 4.8.Reference: IUCLID Dataset (2000).	
LogPow	Iosphorous sait	
BCF	(No data available)	
Koc	(No data available)	
9046-10-) Poly(oxypropylene)diamine	
LogPow	0.09 (Test species: n/a) (The substance is not bioaccumulative)	
DCE	Reference: BASF (M)SDS.	
BOF Koc	(NO data available)	
80-05-7 E	lisobend A	
LogPow	3.4 (Test species: n/a) (OECD TG 107)	
PCE	Reference: ECHA (2011).	
БСГ	Reference: CHRIP (2011).	
Кос	(No data available)	
140-31-8	N-(2-Aminoethyl)piperazine	
LogPow	1.46 (Test species: n/a) (Snake-flask method) Reference: ECHA (2011) and OECD SIDS (2005).	
BCF	(Test species: n/a) (The substance is not bioaccumulative)	
Koc	rererence: Canada DSL (2007). 37000 L/kg (Test species: n/a) (Batch equilibrium method)	
1.00	Reference: ECHA (2011).	
92704-41	-1 Calcined Kaolin	
LogPow	(Not applicable)	
BCE	(No data available) The substance is not bioaccumulative.Reference: Canada DSL (2007).	
Кос	(No data available)	
103-83-3	Benzyldimethylamine	
LogPow	1.98 (Test species: n/a) (at PH=13)	
BCF	(Cyprinus carpio)	
20,	BCF (Chemical concentration: 500 μ g/L; 6 weeks) = 2.1 - 6.4	
	BCF (Chemical concentration: 50 μg/L; 6 weeks) < 22 The substance is low bioaccumulative in acuatic environment	
	Reference: CHRIP (2011).	
	(No data available)	
Koc		

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(Contd. of page 14) Warning: Corrosive substances 80 F-A, S-B Special Precautions: Danger Code (Kemler): EMS Number: Segregation Groups Alkalis 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 the IBC Code Not applicable · Transport/Additional Information: ·DOT Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L Special marking with the symbol (fish and tree). Remarks: · 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 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (4-NONYLPHENOL, BRANCHED, Poly(oxypropylene)diamene), 8, III · UN "Model Regulation": 15 Regulatory information USA Regulation Lists SARA (Superfund Amendments and Reauthorization Act of 1986) Section 302 (Extremely Hazardous Substances) None of the ingredients is listed.

	Section 313 (Toxics Release Inventory (TRI) reporting)		
84852-15-3	4-Nonylphenol, branched		10-20%
80-05-7	Bisphenol A		5-<10%
71-36-3	1-Butyl alcohol		0-<0.1%
· Sec	tion 311/312 (Hazardous Chemical Inventory Reporting)		
84852-15-3	4-Nonylphenol, branched	Α	10-20%
	Organophosphorous salt	A	10-20%
9046-10-0	Poly(oxypropylene)diamine	Α	10-20%
80-05-7	Bisphenol A	A, C	5-<10%
140-31-8	N-(2-Aminoethyl)piperazine	A, C	5-<10%
	Hazard Abbraviations for SARA 311/312		
	A - Acide Health Hazard		
	C - Chronic Health Hazard		
	F - Fire Hazard		
	R - Reactive Hazard		
	S - Sudden Release of Pressure Hazard		
· TSC	CA (Toxic Substances Control Act)		
21645-51-2	Aluminum hydroxide		
84852-15-3	4-Nonylphenol, branched		
	Organophosphorous salt		
9046-10-0	Poly(oxypropylene)diamine		
80-05-7	Bisphenol A		
140-31-8	N-(2-Aminoethyl)piperazine		
92704-41-1	Calcined Kaolin		
100-51-6	Benzyl alcohol		
103-83-3	Benzyldimethylamine		
98171-53-0	Butanoic acid, 4-amino-4-oxosulfo-, N-coco alkyl derivs., monosodium salts, compds. with triethanolamine		
71-36-3	1-Butyl alcohol		
1317-70-0	Anatase		
· Pro	position 65		
	Chemicals Known to Cause Cancer		
None of the	ingredients is listed.		
	Chemicals Known to Cause Reproductive Toxicity for Females		

80-05-7 Bisphenol A

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	(Contd. of page
Nono of tho	Chemicals Known to Cause Reproductive Toxicity for Males
None of the	Ingredients is instea.
None of the	ingredients is listed
· Car	cinocenic Categories
Car	EPA (Environmental Protection Agency)
71-36-3 1-E	utvl alcohol
· ·	IARC (International Agency for Research on Cancer)
None of the	ingredients is listed.
•	NTP (National Toxicology Program)
None of the	ingredients is listed.
•	TLV (Threshold Limit Value Established by ACGIH)
None of the	ingredients is listed.
•	NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the	ingredients is listed.
· Internat	tional Regulation Lists
· Can	adian Domestic Substance Listings:
21645-51-2	Aluminum hydroxide
0046 40 0	4-IVONYIPNENOI, Dranched
9040-10-0	ruy(oxypropylene)dlattille Risnhenol A
140-31-8	N-(2-Aminoethyl)piperazine
92704-41-1	Calcined Kaolin
100-51-6	Benzyl alcohol
103-83-3	Benzyldimethylamine
98171-53-0	Butanoic acid, 4-amino-4-oxosulfo-, N-coco alkyl derivs., monosodium salts, compds. with triethanolamine
71-36-3	1-Butyl alconol
· Can	adian Ingredient Disclosure list (limit 0.1%)
None of the	Ingreatents is listed.
	iadian ingredient Disclosure list (limit 1%) isnbenel A
140-31-8 N	spirerior A
	Chinase Chamical Inventory of Existing Chamical Substances
21645-51-2	
84852-15-3	4-Nonylphenol, branched
9046-10-0	Poly(oxypropylene)diamine
80-05-7	Bisphenol A
140-31-8	N-(2-Aminoethy))piperazine
92704-41-1	
103-83-3	Denzyraioniol Benzyldimethylamine
98171-53-0	Butanoic acid, 4-amino-4-oxosulfo-, N-coco alkyl derivs., monosodium salts, compds, with triethanolamine
71-36-3	1-Butyl alcohol
1317-70-0	Anatase
•	Japanese Existing and New Chemical Substance List:
21645-51-2	Aluminum hydroxide
0046 10 0	4-Non/Ipnehol, branchea
80-05-7	
140-31-8	N-(2-Aminoethyl)piperazine
92704-41-1	Calcined Kaolin
100-51-6	Benzyl alcohol
103-83-3	Benzyldimethylamine
1217 70 0	1-Butyl aiconol
1311-70-0	Milalast Karaan Existing Chamical Inventory
· 21645 51 0	Norean Existing Unemical Inventory: Aluminum hydrovide
21040-01-2	4-Nonvinhenol branched
9046-10-0	Polv(oxpropylene)diamine
80-05-7	Bisphenol A
<u>140-31-8</u>	N-(2-Aminoethyl)piperazine
92704-41-1	Calcined Kaolin
	Denaut electrical
100-51-6	Derizyi alcono

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(Contd. of page 16) 71-36-3 1-Butyl alcohol 1317-70-0 Anatase European Pre-registered substances: 21645-51-2 Aluminum hydroxide 84852-15-3 4-Nonylphenol, branched 9046-10-0 Poly(oxypropylene)diamine 80-05-7 Bisphenol A 140-31-8 N-(2-Aminoethyl)piperazine 92704-41-1 Calcined Kaolin 100-51-6 Benzyl alcohol 103-83-3 Benzyldimethylamine 98171-53-0 Butanoic acid, 4-amino-4-oxosulfo-, N-coco alkyl derivs., monosodium salts, compds. with triethanolamine 71-36-3 1-Butyl alcohol 1317-70-0 Anatase 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 DOT: US Department of Transportation Information Platform DOT: US Department of Transportation DSL: Canada Domestic Substances List ESIS: European Chemical Substances Information System HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System HSUS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System HSUS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System HSUS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System HSUS: US NLM TOXNET Hazardous Substances Databank HSDO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO) IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA) 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: Parition coefficient, soil Organic Carbon to water LC50/LD50: Lethal Concentration/Dose, 50 percent Na: Not available or Not applicable LC50/LD50: Lethal Concentration/Dose, 50 percent N/a: Not available or Not applicable NFPA: 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 PCPA: Descure Conservation and Resource (Act (USA) RCRA: Resource Conservation and Recovery Act (USA) RCRA: Elesource Conservation 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) DTPC: the Recommendations on the Transport of Departure Coode by United Nations (UN) 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) TOXLINE: US NLM bibliographic database search system TSCA: US Toxic Substance Control Act Date of preparation / last revision 01/28/2016 / 5