

Print Date 09/22/2015 Revision Date 09/22/2015

Product Identifier
Trade Name: EP1225 BLACK A
Application of the Substance or Mixture: Epoxy Resin

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 Irrit. 2 H315 Causes skin irritation. H318 Causes serious eye damage. Eye Dam. 1

Skin Sens. 1 H317 May cause an allergic skin reaction.

Repr. 2 H361 Suspected of damaging fertility or the unborn child. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Label Elements

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

Pictogram(s)









GHS05

GHS07

GHS08

GHS09

Signal Word Danger

Hazard-determining Component(s)
Bisphenol-A-(epichlorohydrin) epoxy resin

Resorcinol

4-Nonylphenol, branched Hazard statements

Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
Toxic to aquatic life with long lasting effects.

Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves.
Wear eye protection / face protection.
Avoid release to the environment.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse.

Store locked up.

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

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

· Hazard Rating System

NFPA System NFPA Ratings (scale 0 - 4)



Health = 2 Fire = 1 Reactivity = 0

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

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



Health = *2 Fire = 1 Reactivity = 0

Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.



Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

(Contd. of page 1)

3 Composition/information on ingredients

· Chemical Characterization: Mixtures				
· Composition/Informatio	n on Ingredients			
CAS: 25068-38-6 NLP: 500-033-5 Index Number: 603-074-00-8	Bisphenol-A-(epichlorohydrin) epoxy resin Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	40-50%		
	Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i).	40-50%		
CAS: 26142-30-3 EC number: 607-873-2	Polymer of epichlorohydrin-polyglycol	5-10%		
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	2.5-5%		
CAS: 108-46-3 EINECS: 203-585-2 Index Number: 604-010-00-1 RTECS: VG 9625000	Resorcinol Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317	1-2.5%		
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	1-2.5%		
CAS: 1333-86-4 EINECS: 215-609-9 RTECS: EE5800000	Carbon black (Wetted form) Eye Dam. 2B, H320	0.1-1%		

Classification System:

The Classifications were based on the Toxicological and Ecological Data of the substances/mixtures in the Section 11 and 12.

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.

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doc'tor in case of complaints.

Remove all contaminated clothing and wash before reuse.
Wash contaminated skin with water and soap and rinse thoroughly.

Seek immediate medical advice.

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. IMMEDIATELY transport victim to a hospital even if no symptoms develop.

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.

Seek medical treatment in case of complaints.

· After Exposure Get medical advice/attention at once.

· Information for Doctor Have chemical containers, labels and/or (M)SDS ready when calling or visiting a medical center.

Indication of any Immediate Medical Attention and Special Treatment Needed After frequent or high intense exposure, the following medical tests are recommended:

skin tests
Reproductive system function tests
Check section 11 Toxicological Information for further relevant information.

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

(Contd. on page 3)





Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

(Contd. of page 2)

Firefighting Procedures

Isolate fire and deny unnecessary entry.
Immediately withdraw all personnel from the area in case of rising sound from venting safety device.
Eliminate all ignition sources if safe to do so.

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.

Solid stream of water may spread fire; use water spray or water fog.

Cool all affected containers with flooding quantities of water.

Burning liquids may be moved by flushing with water; protect personnel and minimize property damage.

Contain fire water runoff if possible to prevent environmental pollution.

Fight fire from protected location or safe distance.

Contain fire water runoff if possible to prevent environmental pollution.

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:

Phenolic compounds

isocyanic acid

Isocyanates

isocyanates
Formaldehyde, a skin and lung sensitizer and a regulated carcinogen, may be formed during fires.
Carbon dioxide (CO₂) and Carbon monoxide (CO)
Hydrogen cyanide (HCN)
Silicon oxide (SiO₂)

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 Caution! Finely dispersed substance may form explosive mixtures in air.

6 Accidental release measures

Personal Precautions

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

Cleaning Up Methods
Ensure adequate ventilation.
Eliminate all ignition sources.
Keep unauthorized personnel away.
For large spills:
Shut off source of leak if safe to do so.
Dike and contain.
Remove with vacuum trucks or pump to storage/salvage vessels.

Allow molten product to cool.

Absorb residues with liquid-binding materials.

Avoid confined spaces, such as sewers, because of the possibility of an explosion.

For small spills:

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.

Additional Information No further relevant information.

7 Handling and storage

Handling

Precautions for Safe Handling
Obtain special instruction before use; do not handle until all safety precautions have been read and understood. Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during handling.
Avoid any body contact of containers or contents unless wearing appropriate personal protective equipment.
Wear respiratory protection when handling.
Handle in well ventilated work space.

Keep away from incompatible material(s). Avoid any release into the environment. Observe all the personal protection requirements in Section 8.

Information about Protection Against Explosions and Fires

Will not burn unless preheated. Keep away from heat, sparks, open flame and other ignition sources during handling. Dust can combine with air to form an explosive mixture.

· 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.



Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

(Contd. of page 3)

· Additional Information No further relevant information.

8 Exposure controls/personal protection

· Engineering	· Engineering Measures or Controls			
Exposu	Exposure Limit Values that Require Monitoring at the Workplace			
67762-90-7	67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica			
	Short-term value: 15 mg/m³			
US ACGIH	Short-term value: 10 mg/m³			
108-46-3 Re	108-46-3 Resorcinol			
REL	Short-term value: 90 mg/m³, 20 ppm Long-term value: 45 mg/m³, 10 ppm			
TLV	Short-term value: 90 mg/m³, 20 ppm Long-term value: 45 mg/m³, 10 ppm			
84852-15-3 4-Nonylphenol, branched				
	Short-term value: 20 mg/m³			
TEEL-2	Short-term value: 125 mg/m³			
TEEL-3	Short-term value: 500 mg/m³			
1333-86-4 Carbon black				
PEL	Long-term value: 3.5 mg/m³			
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C			
	*0.1 in presence of PAHs;See Pocket Guide Apps.A+C			

Long-term value: 3* mg/m³ *inhalable fraction

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

TLV

General Protective and Hygienic Measures
Avoid any contact with skin or eye.
Do not eat, drink or smoke during work.
Keep food, drink or feed away from working area.
Contaminated work clothing is not allowed out of workplace.
Clean hands and exposed skin thoroughly after work and before breaks.

Personal Protective Equipment (PPE)

Breathing Equipment

Caution! Improper use of respirators is dangerous.
In case of brief exposure or low pollution, use a respiratory filter device.
In case of intensive or longer exposure, use a positive-pressure respiratory protective device that is independent of circulating air.

Hand Protection



Protective gloves

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

Eyé Protection



Brief or short term use: Tightly sealed goggles



Intensive or long term use: Tightly sealed goggles and Face Shields

Body Protection No relevant information.

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.

(Contd. on page 5)





Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

(Contd. of page 4)

9 Physical and chemical properties Information on Basic Physical and Chemical Properties Appearance: Semi Paste Form: Color: Black Odor: Mild Odor Threshold: Not determined. · PH-Value: Not determined. Change in Condition: Melting Point: Boiling Point: Not determined. >260 °C (>500 °F) >192 °C (>378 °F) (Estimated) Flash Point · Decomposition Temperature: Not determined. Flammability: Not determined. Not determined. Explosion: Explosion Limits: Not determined. Lower: Upper: Not determined. Vapor Pressure: Density at 25 °C (77 °F): Solubility in or Miscibility with Not determined. 1.12 g/cm3 (9.346 lbs/gal) Water: Not miscible or difficult to mix. Viscosity: Dynamic at 20 °C (68 °F): Kinematic: 150000 mPas 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)

Water, moisture or humid air may cause hazardous vapors to form. May react with strong reducing agents generating flammable hydrogen (H₂).

Incompatible Material(s)

Mercaptans Aminės. Water Oxidizing agents

Acids Bases (Alkalis) Iron and iron salts

- Hazardous Decomposition Product(s)
- 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.
- · Additional Information No further relevant information.

11 Toxicological information Acute Toxicity · Oral 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Oral LD50 11400 mg/kg (rat) 15600 mg/kg (mouse) Reference: NLM Toxnet (2010). Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i). Oral LD50 (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Oral LD50 > 4000 mg/kg (rat) (males; no test guideline available) Reference: Dow (M)SDS (2002). 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Oral LD50 >5000 mg/kg (rat) (test method not specified) Reference: Cabot (M)SDS (2012). 108-46-3 Resorcinol Oral LD50 510 mg/kg (rat) Reference: Oxychem (M)SDS (2015) (Contd. on page 6)



Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

(Contd. of page 5) 84852-15-3 4-Nonylphenol, branched Oral LD50 1604 mg/kg (rat) Reference: Royce SDS (2015) Potential Health Effect(s). While not a classified acute oral hazard, the product may cause the following symptom(s): While not possible to classify the acute oral hazard due to missing data, the product may cause the following symptom(s): burning sensation diarrhea irritation of mucous membrane nausea shock or collapse weakness headache dizziness Not a classified acute oral hazard. pallor, sweating, tinnitus, and shock · Dermal 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Dermal LD50 20000 mg/kg (rabbit) (Test guideline not available)
> 1270 mg/kg (mouse)
> 2000 mg/kg (rat)
> 2000 mg/kg (rat)
> 1600 mg/kg (rabbit); however, there was no fixed test result available; classification was not possible without further information. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i). Dermal LD50 (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Dermal LD50 > 2000 mg/kg (rat) (no test guideline available) Reference: Dow (M)SDS (2002). 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica (Test species: n/a) (Toxicity not expected based on acute oral data) Based on the acute oral toxicity test, it was expected that toxicity to mammals via dermal application of the substance was not a significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute dermal hazard as a wetted form. 108-46-3 Resorcinol Dermal LD50 3360 mg/kg (rabbit) Reference: Oxychem 2015 84852-15-3 4-Nonylphenol, branched Dermal LD50 2031 mg/kg (rabbit) Royce SDS (2015) Potential Health Effect(s): Not a classified acute dermal hazard Inhalative 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Inhalative LC50/4 h (Test species: n/a) (Toxicity not expected based on the acute oral data) Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i). Inhalative LC50/4 h (No data available 26142-30-3 Polymer of epichlorohydrin-polyglycol Inhalative LC50/4 h (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica (Test species: n/a) (Toxicity not expected based on acute oral data)

Due to wetted form of the substance, inhalative effects from dust form can be seen as negligible. Meanwhile, based on the acute oral toxicity test, it was expected that toxicity to mammals via inhalation of the substance was not a significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute Inhalative LC50/4 h 108-46-3 Resorcinol Inhalative LC50/4 h >5600 mg/l (rat) (LC0 (8 hrs, aerosol) ≥ 2.8mg/l (622 ppm)) Reference: Oxychem 2015 84852-15-3 4-Nonylphenol, branched (mouse) (Non-toxic; LC50 exceeded the satured vapor value)
At 267 mg/m³ (230 ppm), there was no significant depression. At the saturated vapor concentration of 3636 mg/m³ (400 ppm) at 70 °C, there was sensory irritation observed which was rapidly gone after removal from exposure. The substance was not classified as an acute inhalative hazard under its regular use. Inhalative LC50/4 h Reference: IUCLID Dataset (2000). Potential Health Effect(s): burning sensation couah

burning sensation cough dizziness or lightheadedness headache nausea shortness of breath sore throat wheezing dyspnea convulsion methemoglobinemia (blue skin, blue lips, and blue finger nails) Not a classified acute inhalative hazard.
No further relevant information; classification is not possible.



Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

(Contd. of page 6) Skin Corrosion or Irritation 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Corrosion/Irritation irritating (rabbit)
Acute skin irritation was mild, through repeated and prolonged exposure may cause severe irritation.
The substance was classified as Category 2 by GHS-J.
Reference: HSNO CCID (2010) and GHS-J (2006). Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i). Corrosion/Irritation (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Corrosion/Irritation (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Corrosion/Irritation Non-irritating (rest species: n/a) (Primary irritation index=0)
mildly irritating (rabbit) (Read across from CAS 63148-62-9)
No test detail available; for safety reasons, the substance was classified as mildly irritating (Category 3) to rabbit skin.
Reference: HSNO CCID (2010). 108-46-3 Resorcinol Corrosion/Irritation irritating (rabbit) (FHSLA method; 500mg neat substance)
Primary dermal irritation index (PDII): 4.4; the substance was therefore classified as irritating (Category 2) to rabbit skin based on the criteria.
Reference: ECHA (2012). 84852-15-3 4-Nonylphenol, branched 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 within 8 days.
Reference: IUCLID Dataset (2000). Potential Health Effect(s): Causes skin irritation. In contact with skin, may cause: dryness skin rash redness and pain Not a known skin irritant. Eye Serious Damage or Irritation 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Damage/Irritation irritating (rabbit)
The substance caused eye irritation (Category 2A) based on the dermal effect to rabbit skin. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i). Damage/Irritation (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Damage/Irritation (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Damage/Irritation | slightly irrit. (Human) (Read across from CAS 63148-62-9) non-irritating (Primary irritation index=0) Transient ocular irritation was observed in humans, rabbits, dogs, and monkeys after injection of the substance to their eye bodies. However, those effects can be seen as negligible based on regular use of the substance. When applying lower viscosity substance-oil mixture to human and rabbit eyes, there was no cornea injury, but a delay of healing of the existed corneal erosion observed. For safety reasons, the substance was classified as a slight eye irritant (Category 2B). Reference: ACTOR (2011) and Cabot (M)SDS (2012). 108-46-3 Resorcinol Damage/Irritation | corrosive (rabbit) | Overall irritation score: 105/110 (FHSLA method; 0.1g neat substance; Max. score: 110; Time point: 24+48+72 hrs; mean score of all treated animals); irreversible at the end of the test; the substance was therefore classified as corrosive/seriously damage to rabbit eyes. Reference: ECHA (2012). 84852-15-3 4-Nonylphenol, branched Damage/Irritation | serious irrit. (rabbit) (Draize Test) | There was corneal opacity in all animals and iritis in two. Meanwhile, all treated animals showed marked conjunctival involvement with transient discharges. Thus, the substance was classified as a serious eye irritant (Category 1). Reference: IUCLID Dataset (2000) Potential Health Effect(s): Causes serious eye damage. In contact with eye, may cause: decrease or loss of vision redness, pain and severe deep burns Respiratory or Skin Sensitization 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin sensitizing (Human)
Based on positive results from skin sensitization tests on human volunteers and guinea pigs, GHS-J classified the substance as a dermal sensitizer.
Reference: GHS-J (2006). Sensitization Skin Respiratory (No data available) Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i). Sensitization Skin (No data available) Respiratory (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Sensitization Skin (No data available) Respiratory (No data available)



Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

67762-90.7 Siloxanes and Silicones, di-Me, reaction products with silica Sensitization Sin Not date available) Primary initiation indexed Non-imteding. Respiratory (No date available) Primary initiation indexed Non-imteding. Respiratory (No date available) Primary initiation indexed Non-imteding. Respiratory (No date available) Primary initiation index (Concentration: 0.1%, 0.5%, 1%, 5%, and 25%) = 1.58.2.87.1.9.5.1 June 10.5%		(Control of non-
Sensitization Skin No data available Primary irrelation index of Non-irritating	67762-90-7 5	Contd. of pag
Primary irritation index = O Non-irritating. Respiratory (No data available)		
Respiratory (No data available)		Primary irritation index=0 Non-irritating.
Sensitization Skin Sensitizing (mouse) (QECD TG 429; intradermal and epicutaneous; max, 25%) Stimulation index (Concentration: 0.1%, 0.5%, 1%, 5%, and 25%) and 25%) and 25% a		Cabot MSDS (2012)
Sensitization Skin sensitizing (mouse) (CECD TG 429; intradermal and epicutaneous; max 25%) = 1.58, 2.87, 1.97, 3.51, and 5 Stimulation index (Concentration) = 1.9%, 0.5%, and 25%) = 1.58, 2.87, 1.97, 3.51, and 5 Stimulation index (Concentration) = 1.9%, 0.5%, and 25%) = 1.58, 2.87, 1.97, 3.51, and 5 Stimulation index (Concentration) = 1.9%, 0.5%, and 25% = 1.58, 2.87, 1.97, 3.51, and 5 Stimulation index (Concentration) = 1.9%, 0.5%,		Respiratory (No data available)
respectively. Thus, the threshold positive value of 3 was exceeded at concentrations equal to 5% and the aboth the substance was therefore considered as positive in this LLNA test, and as a moderate Skin sensitizer bank feetering. Reference: ECHA (2012). Respiratory (No data available) 84852-15-3 4-Nonriphenol, branched Sini not sensitizing (guinea pig) (Buehler test with OECD TG 406) There was no significant difference between treated and negative controlled groups; the substance was classified as a demail sensitizer, lessified as a demail sensitizer, reference: IUCLID bataset (2000). Respiratory (No data available) Paternal Health Effect, in the substance of the substance was classified as a demail sensitizer. Reference: IUCLID bataset (2000). Respiratory (Anda available) Paternal Health Effect, in the substance of the substance of the substance of the supstance of the substance of	108-46-3 Res	sorcinol
respectively. Thus, the threshold positive value of 3 was exceeded at concentrations equal to 5% and the aboth the substance was therefore considered as positive in this LLNA test, and as a moderate Skin sensitizer bank feetering. Reference: ECHA (2012). Respiratory (No data available) 84852-15-3 4-Nonriphenol, branched Sini not sensitizing (guinea pig) (Buehler test with OECD TG 406) There was no significant difference between treated and negative controlled groups; the substance was classified as a demail sensitizer, lessified as a demail sensitizer, reference: IUCLID bataset (2000). Respiratory (No data available) Paternal Health Effect, in the substance of the substance was classified as a demail sensitizer. Reference: IUCLID bataset (2000). Respiratory (Anda available) Paternal Health Effect, in the substance of the substance of the substance of the supstance of the substance of	Sensitization	Skin sensitizing (mouse) (OECD TG 429; intradermal and epicutaneous; max.25%)
the substaince was therefore considered as positive in this LLNA test, and as a moderate skin sensitizer ba on the classification (Cassification Cassification) Respiratory) (No data available) 84852-15.3 4-Mony/phenol, branched Sensitization) Sim Individual management of the substained of the su		Stimulation Index (Concentration: 0.1%, 0.5%, 1%, 5%, and 25%) = 1.58, 2.87, 1.97, 3.51, and 5.
on the classification criteria. Respiratory (No data available) 84852-15-3 4-Norylphenot, branched. Guinea pig maximization leaf to experiment of the substance between treated and negative controlled groups; the substance was classified as a dermal sensitizor. Respiratory (No data available) Potential Health Effect(s): May cause an allergic skin reaction. No further relevant information for skin sensitization; classification is not possible. No relevant information for respiratory sensitization; classification is not possible. No relevant information for respiratory sensitization; classification is not possible. No relevant information for respiratory sensitization; classification is not possible. No relevant information for respiratory sensitization; classification is not possible. No relevant information for respiratory sensitization; classification is not possible. No relevant information for respiratory sensitization; classification is not possible. No relevant information for respiratory sensitization; classification is not possible. No relevant information for respiratory sensitization; classification is not possible. No relevant information for respiratory sensitization; classification is not possible. No relevant information for respiratory sensitization; classification is not possible. 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 (Chineas banaste lung fibroblest cells) (in Vitro (Chromosomal Aberration)) Mutagenicity (In the metabolic activation. Positive (salmonella typhimurium) (in vitro (Ames assay)). Due to the absence from in Vivo tests, it was not possible to metabolic activation. Mutagenicity (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol 26142-30-3 Polymer of epichlorohydrin-polyglycol 26142-30-3 Polymer of epichlorohydrin-polyglycol 26142-30-3 Polymer of epichlorohydrin-polyglycol 26142-30-3 Polymer of epichl		respectively. Thus, the threshold positive value of 3 was exceeded at concentrations equal to 5% and the about
Respiratory (No data available) 84852-15-3 4-Monylphenol, branched Sensitization Skin		the substance was therefore considered as positive in this LLIVA test, and as a moderate skin sensitizer bas
Respiratory (No data available) 84852-15-3 -4 Monylphenob, branched Sensitization Skin not sensitizing (guinea pig) (Buehler test with OECD TG 406) Guinea pig maximization test - negative There was no significant difference between treated and negative controlled groups; the substance was Respiratory (No data available) Potential Health Effect(s): May cause an allergic skin reaction. Respiratory (No data available) Potential Health Effect(s): May cause an allergic skin reaction. In the property May cause an allergic skin reaction. May represent the property May cause an allergic skin reaction. May cause and allergic skin reaction. May cause an allergic skin r		
Sensitization Skim not sensitizing (guinea pig) (Buehler test with OECD TG 406) Guinea pig maximization test - negative There was no significant difference between treated and negative controlled groups; the substance was Reference: IUCLID Dataset (2000). Respiratory No data available; Respiratory No data available; No data		
Sensitization Skin	04050 45 0 4	
There was no significant difference between treated and negative controlled groups; the substance was classified as a demail sensitizer. Respiratory (No data evaluable)		-nonylphenol, brancheu
There was no significant difference between treated and negative controlled groups; the substance was classified as a demail sensitizer. Respiratory (No data evaluable)	Serisitization	SKIT TIOL SETSILIZING (QUITIEN 1997) (DUETHIEL TEST WITH OFFICE TO 400) Guinea nin maximization test - negative
classified as a dermal sensitizer Respiratory (No data available)		There was no significant difference between treated and negative controlled groups: the substance was i
Respiratory [No data available] Potential Health Effect[s]: May cause an allergic skin reaction. More elevant information for respiratory sensitization; classification is not possible. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Germ Cell Mutagenicity 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Mutagenicity In Vitro (Chromosomal Aberration, Chinese hamster lung fibroblast cells) (in Vitro (Chromosomal Aberration)) In Vitro (Chromosomal Aberration, Chinese hamster lung fibroblast cells) - Positive without metabolic activation, Positive (salmonella typhinurium) (in Vitro (Ames assay)). Due to the absence from in Vivo tests, it was not possible to may conclusion of mutagenicity of the substance. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(f) Mutagenicity (IVo data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Mutagenicity (IVo data available) 26762-90-7 Silovanes and Silicones, di-Me, reaction products with silica Mutagenicity (IVo data available) Reference: Cabot (MISDS (2012) Reference: Cabot (MISDS (2012) Reference: Cabot (MISDS (2012) Reference: Cabot (MISDS (2014) Reference: Cabot (MISDS (2014)		classified as a dermal sensitizer.
Potential Health Effect(s): May cause an allergic skin reaction. No further relevant information for skin sensitization; classification is not possible. 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 positive (Chinese hamster lung fibroblast cells) (in Vitro (Chromosomal Aberration)) Mutagenicity positive (Chinese hamster lung fibroblast cells) Positive without metabolic activation; negal with metabolic activation and provided in the positive (Salmone) of the substance. Positive (Salmone) Positive (Salmone) Positive (Salmone) None of the imperation (Chinese hamster lung fibroblast cells) Positive without metabolic activation; negal with metabolic activation; negal with metabolic activation (Positive (Salmone) Positive (Salmone) None of the imperation (Chinese Hamster) (In Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to metabolic activation (Positive Chinese Hamster) (In Vitro (Chromosomal aberration)) Mutagenicity (No data available) 1012-112-112-112-112-112-112-112-112-112		Reference: IUCLID Dataset (2000).
May cause an allergic skin reaction. No further relevant information for skin sensitization; classification is not possible. 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 positive (Chinese hamster lung fibroblast cells) (in Vitro (Chromosomal Aberration)) In Vitro (Chromosomal Aberration; Chinese shamster lung fibroblast cells) - Positive without metabolic activation; negative (salimonella typhimurium) (in Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to me conclusion of mutagenicity of the substance. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(f) (No data available) 26142-30-3 Polymer of epichlororhydrin-polyglycol Mutagenicity (No data available) 76762-90-7 Shozanes and Silicones, di-Me, reaction products with silica Mutagenicity in Regative (Chinese Hamster) (in Vitro (AMES Test)) Mutagenicity in Regative (Chinese Hamster) (in Vitro (AMES Test)) Mutagenicity in Regative (Chinese Hamster) (in Vitro (Chromosomal aberration in ovary cells)) **Regative (Chinese Hamster) (in Vitro (Chromosomal aberration in ovary cells)) **Mutagenicity in Regative (Test species listed below) In Vitro (Sater chromatid exchange assay in Chinese hamster) (vary (CHO) cells) - positive with metabolic activation In Vitro (Sister chromatid exchange assay in Chinese hamster) (vary (CHO) cells) - positive with metabolic activation In Vitro (Inmanian cell micronucleus test; Putanan (female) lymphocyte cultures) - positive with and without metabolic activation In Vitro (Mormalian cell micronucleus test; CECD TG 476; mouse lymphoma L5178Y cells) - negative with and without metabolic activation In Vitro (Inconucleus assay; OECD TG 476; chinese hamster) one positive with metabolic activation In Vitro (Inconucleus assay; OECD TG 476; Chinese hamster) - negative w		Respiratory (No data available)
May cause an allergic skin reaction. No further relevant information for skin sensitization; classification is not possible. 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 positive (Chinese hamster lung fibroblast cells) (in Vitro (Chromosomal Aberration)) In Vitro (Chromosomal Aberration; Chinese shamster lung fibroblast cells) - Positive without metabolic activation; negative (salimonella typhimurium) (in Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to me conclusion of mutagenicity of the substance. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(f) (No data available) 26142-30-3 Polymer of epichlororhydrin-polyglycol Mutagenicity (No data available) 76762-90-7 Shozanes and Silicones, di-Me, reaction products with silica Mutagenicity in Regative (Chinese Hamster) (in Vitro (AMES Test)) Mutagenicity in Regative (Chinese Hamster) (in Vitro (AMES Test)) Mutagenicity in Regative (Chinese Hamster) (in Vitro (Chromosomal aberration in ovary cells)) **Regative (Chinese Hamster) (in Vitro (Chromosomal aberration in ovary cells)) **Mutagenicity in Regative (Test species listed below) In Vitro (Sater chromatid exchange assay in Chinese hamster) (vary (CHO) cells) - positive with metabolic activation In Vitro (Sister chromatid exchange assay in Chinese hamster) (vary (CHO) cells) - positive with metabolic activation In Vitro (Inmanian cell micronucleus test; Putanan (female) lymphocyte cultures) - positive with and without metabolic activation In Vitro (Mormalian cell micronucleus test; CECD TG 476; mouse lymphoma L5178Y cells) - negative with and without metabolic activation In Vitro (Inconucleus assay; OECD TG 476; chinese hamster) one positive with metabolic activation In Vitro (Inconucleus assay; OECD TG 476; Chinese hamster) - negative w	· Pote	ntial Health Effect(s):
No relevant information for respiratory sensitization; classification is not possible. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. 25068-38-6 Bisphenot-A-(epichlorohydrin) epoxy resin Mutagenicity positive (Chinese hamster lung fibroblast cells) (in Vitro (Chromosomal Aberration)) in Vitro (Chromosomal Aberration), epositive (Chinese hamster lung fibroblast cells) - Positive without metabolic activation, Positive (salmonella typhimurium) (in Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to ma a conclusion of mutagenicity of the substance. Reference: NLM CCRIS (2010). Alkyl phenol blocked polyisocyanater (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Mutagenicity (No data available) Mutagenicity (No data available) Mutagenicity (No data available) 108-46-3 Resorcinol Mutagenicity Inegative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) Relevence: Cabot (MisDS (2012). 108-46-3 Resorcinol Mutagenicity Inegative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) Relevence: Cabot (MisDS (2012). 108-46-3 Resorcinol Mutagenicity (Inegative Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) Relevence: Cabot (MisDS (2012). 108-46-3 Resorcinol Mutagenicity (Inegative Chinese Hamster) (In Vitro (Ames Sectivation in Vitro (Sister chromatid exchange assay; OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - negative (Inimagenicity Initiation (In Vitro (Inimagenicity Initiation)) In Vitro (Sister chromatid exchange assay; or Chinese hamster) (Initiation) (In Vitro (Inimagenicity Initiation)) In Vitro (Sister chromatid exchange assay; or Chinese hamster) (Initiation) (Initi		
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Germ Cell Mutagenicity positive (Chinese hamster lung fibroblast cells) (In Vitro (Chromosomal Aberration) In Vitro (Chromosomal Aberration) Positive (salimonella typhimurium) (in Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to ma a conclusion of mutagenicity of the substance.		
Germ Cell Mutagenicity 25068-38-6 Bisphenol-A (epichlorohydrin) epoxy resin Mutagenicity positive (Chinese hamster lung fibroblast cells) (In Vitro (Chromosomal Aberration)) In the positive (Chinese hamster lung fibroblast cells) - Positive without metabolic activation; negative (Internation) Positive (samonella typhimurium) (In Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to many a conclusion of mutagenicity of the substance. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Mutagenicity) (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Mutagenicity (Wo data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Mutagenicity (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Mutagenicity (In the polyment of epichlorohydrin-polyglycol Mutagenicity (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Mutagenicity in egative (Chinese Hamster) (In Vitro (AMES Testi)) negative (Chinese Hamster) (In Vitro (AMES Testi)) negative (Chinese Hamster) (In Vitro (AMES Testi)) negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) Reference: Cabot (M/SDS (2012). 108-46-3 Resorcinol Mutagenicity in egative (Test species listed below) In Vitro (Bacterial reverse mutation assay; OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - negative with and without metabolic activation in Vitro (Sister chromatid exchange assay in Chinese hamster Ovary (CHO) cells) - positive with metabolic activation in Vitro (Mammalian cell gene mutation assay; OECD TG 437; Human (female) lymphocyte cultures) - positive with and without metabolic activation in Vitro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L51787 cells) - negative with and without metabolic activation in Vitro (Mammalian cell gene mutation assay; OECD TG 476; mouse		
25088-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Mutagenicity positive (Chinese hamster lung fibroblast cells) (in Vitro (Chromosomal Aberration) in Vitro (Chromosomal Aberration; Chinese hamster lung fibroblast cells) - Positive without metabolic activation, Positive (salmonella typhimurium) (in Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to ma a conclusion of mutagenicity of the substance. Reference: NLM CCRIS (2010). Alkyl phenol blocked polysocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Mutagenicity (No data available) 25142-30-3 Polymer of epichlorohydrin-polyglycol Mutagenicity (No data available) 108-46-3 Resorcinol Mutagenicity (No data available) 109-46-3 Resorcinol 109-46-3 Resorcinol Mutagenicity (No data available) 109-46-3 Resorcinol 10	None of the in	ngredients is listed.
25088-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Mutagenicity positive (Chinese hamster lung fibroblast cells) (in Vitro (Chromosomal Aberration) in Vitro (Chromosomal Aberration; Chinese hamster lung fibroblast cells) - Positive without metabolic activation, Positive (salmonella typhimurium) (in Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to ma a conclusion of mutagenicity of the substance. Reference: NLM CCRIS (2010). Alkyl phenol blocked polysocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Mutagenicity (No data available) 25142-30-3 Polymer of epichlorohydrin-polyglycol Mutagenicity (No data available) 108-46-3 Resorcinol Mutagenicity (No data available) 109-46-3 Resorcinol 109-46-3 Resorcinol Mutagenicity (No data available) 109-46-3 Resorcinol 10	· Germ Ce	Il Mutagenicity
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In Vitro (Chromosomal Aberration; Chinese hamster lung fibroblast cells) - Positive without metabolic activation; nega with metabolic activation; Positive (salmonella typhimurium) (In Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to maconicus on of mutagenicity of the substance. Alkyl phenol blocked polyisocynante (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Mutagenicity (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Mutagenicity] (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Mutagenicity (Chinese Hamster) (In Vitro (AMES Test))		
with mefabolic activation. Positive (salmonella typhimurium) (In Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to machine a conclusion of mutagenicity of the substance. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Mutagenicity (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Mutagenicity (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Mutagenicity (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Mutagenicity (Rogative (Chinese Hamster) (In Vitro (AMES Test)) negative (Chinese Hamster) (In Vitro (AMES Test)) negative (Chinese Hamster) (In Vitro (AMES Test)) negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) Reference: Cabot (M)SDS (2012). 108-46-3 Resorcinol Mutagenicity (Rogative Test species listed below) (In Vitro (Bacterial reverse mutation assay; OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - negative (Chinese Hamster) (In Vitro (Mammalian cell micronucleus test, OECD TG 487; Human (female) lymphocyte cultures) - positive with and with metabolic activation In Vitro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and with metabolic activation In Vivro (Sister chromatid exchange assay; act, intrapentioneal with up to 100 mg/kg via - negative (In Vivo (Sister chromatid exchange assay; act, intrapentioneal with up to 50 mg/kg via - negative (In Vivo (Discophila SLRL test; Drosophila melanogaster; oral with up to 50 mg/kg via - negative mutagenicity (In Vivo (Chinese et al. 2001) (In Vitro (Ammalian cell sasay) act, intrapentioneal with up to 50 mg/kg via - negative mutagenicity (In Vivo (Directive 79/831/EEC, B12) (In Vivo (Directive 79/831/EEC, B12) (In Vivo (Directive 79/831/EEC, B12) (In Vivo (Directive 79/831/EEC, B12; mouse) - no mutagenic effects in mouse erythrocytes were observed du	matagomony	In Vitro (Chromosomal Aberration: Chinese hamster lung fibroblast cells) - Positive without metabolic activation: negat
a conclusion of mutagenicity of the substance. Reference: NLM CCRIS (2010). Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Mutagenicity (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Mutagenicity (No data available) 6762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Mutagenicity negative (Chinese Hamster) (In Vitro (AMES Test)) negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) Reference: Cabot (M)SDS (2012). 108-46-3 Resorcinol Mutagenicity negative (Test species listed below) In Vitro (Sacerial reverse mutation assay; OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - nega with and without metabolic activation In Vitro (Mammalian cell micronucleus test; OECD TG 487; Human (female) lymphocyte cultures) - positive with and with metabolic activation In Vitro (Mammalian cell micronucleus test; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and with metabolic activation In Vitro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and with metabolic activation In Vitro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L5178Y cells) - negative with metabolic activation In Vitro (Drosophila SLRL test; Drosophila melanogaster; oral with up to 100 mg/kg bw) - negative In Vivro (Drosophila SLRL test; Drosophila melanogaster; oral with up to 100 mg/kg bw) - negative In Vivro (Drosophila SLRL test; Drosophila melanogaster; oral with up to 100 mg/kg bw) - negative In Vivro (Drosophila SLRL test; Drosophila melanogaster; oral with up to 100 mg/kg bw) - negative In Vivro (Drosophila SLRL test; Drosophila melanogaster; oral with up to 100 mg/kg bw) - negative In Vivro (Drosophila SLRL test; Drosophila melanogaster; oral with up to 100 mg/kg bw) - negative In Vivro (Drosophila SLRL test; Drosophila melanogaster; oral with up to 100 mg/kg bw) - negative In		with metabolic activation
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Mutagenicity (No data available) 26142-30-7 Siloxanes and Silicones, di-Me, reaction products with silica Mutagenicity (No data available) and Mutagenicity (No data available) Mutagenicity negative (Chinese Hamster) (In Vitro (AMES Test)) negative (Chinese Hamster) (In Vitro (AMES Test)) negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) Reference: Cabot (MSDS) (2012). 108-46-3 Resorcinol Mutagenicity negative (Test species listed below) In Vitro (Bacterial reverse mutation assay; OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - negative (Intro (Bacterial reverse mutation assay; OECD TG 477; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - negative with and with understool activation In Vitro (Sister chromatid exchange assay in Chinese hamster Ovary (CHO) cells) - positive with metabolic activation In Vitro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L51787 cells) - negative with and with metabolic activation In Vivo (Drosophila SLRL test; Drosophila melanogaster; oral with up to 11000 ppm) - negative In Vivo (Sister chromatid exchange assay; rat; intraperitoneal with up to 100 mg/kg bw) - negative In Vivo (Sister chromatid exchange assay; rat; intraperitoneal with up to 500 mg/kg bw) - negative Only negative results were observed from the In Vivo tests, the substance was therefore considered as negative mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) Reference: ECHA (2012). 84852-15-3 4 Nonylphenol, branched Mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) In Vivo (Marse test; salmonella typhimurium) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vivo (Directive 79/831/EEC, B12) Potential Health Effect(s): No further relevant information; classification is not possible. **Carcinogenicity** Carcinogenicity** 1 out of 4 cases with female mice showed positive carcinogenic results afte		Reference: NEM CCRIS (2010).
Mutagenicity (No data available)		
Mutagenicity (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Mutagenicity negative (Chinese Hamster) (In Vitro (AMES Test))		
Mutagenicity negative (Chinese Hamster) (In Vitro (AMES Test)) negative (Chinese Hamster) (In Vitro (AMES Test)) negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) negative (Test species listed below) nutro (Bacterial reverse mutation assay, OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - negative (Test species listed below) nutro (Bacterial reverse mutation assay, OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - negative in Vitro (Sister chromatid exchange assay in Chinese hamster Ovary (CHO) cells) - positive with metabolic activation nutro (Mammalian cell micronucleus test; OECD TG 487; Human (female) lymphocyte cultures) - positive with and with metabolic activation nutro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and with metabolic activation nutro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and with metabolic activation nutro (Micronucleus assay; OECD TG 474; rat, oral with up to 11000 ppm) - negative nutagenicity nutagenicity nutagenicity nutagenicity negative results were observed from the In Vivo tests, the substance was therefore considered as negative mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) nutro (Ames test; salmonella typhimunum) - negative with and without metabolic activation nutro (Ames test; salmonella typhimunum) - negative with and without metabolic activation nutro (Ames test; salmonella typhimunum) - negative with and without metabolic activation nutro (Ames test; salmonella typhimunum) - negative with and without metabolic activation nutro (Ames test; salmonella typhimunum) - negative with and without metabolic activation nutro (Ames test; salmonella typhimunum) - negative with and without metabolic activation nutro (Ames test; salmonella typhimunum) - negative with and without	26142-30-3 F	olymer of epichlorohydrin-polyglycol
Mutagenicity negative (Chinese Hamster) (In Vitro (AMES Test)) negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) Reference: Cabot (M)SDS (2012). 108-46-3 Resorcinol Mutagenicity negative (Test species listed below) In Vitro (Bacterial reverse mutation assay; OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - negative with and without metabolic activation In Vitro (Sister chromatid exchange assay in Chinese hamster Ovary (CHO) cells) - positive with metabolic activation In Vitro (Mammalian cell micronucleus test; OECD TG 487; Human (female) lymphocyte cultures) - positive with and with metabolic activation In Vitro (Mammalian cell micronucleus test; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and with metabolic activation In Vivro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and with metabolic activation In Vivro (Drosophila SLRI, test: Drosophila melanogaster; oral with up to 11000 ppm) - negative In Vivo (Sister chromatid exchange assay; rat; intraperitoneal with up to 100 mg/kg bw) - negative In Vivo (Micronucleus assay; OECD TG 474; rat, oral with up to 500 mg/kg bw) - negative Only negative results were observed from the In Vivo tests, the substance was therefore considered as negative mutagenicity, Reference: ECHA (2012). 84852-15-3 4-Nonylphenol, branched Mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) In Vitro (Ames test; salmonella typhimurium) - negative with and without metabolic activation In Vivo (Directive 79/831/EEC, B12; mouse) - no mutagenic effects in mouse erythrocytes were observed during the is ampling time. Reference: IUCLID Dataset (2000). Potential Health Effect(s): No further relevant information; classification is not possible. **Carcinogenicity** negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) Vivo (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeate		
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negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) Reference: Cabot (M)SDS (2012). 108-46-3 Resorcinol Mutagenicity negative (Test species listed below) In Vitro (Bacterial reverse mutation assay; OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - nega with and without metabolic activation In Vitro (Sister chromatid exchange assay in Chinese hamster Ovary (CHO) cells) - positive with metabolic activation In Vitro (Sister chromatid exchange assay in Chinese hamster Ovary (CHO) cells) - positive with and with metabolic activation In Vitro (Mammalian cell micronucleus test; OECD TG 487; Human (female) lymphocyte cultures) - positive with and with metabolic activation In Vitro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and with metabolic activation In Vivo (Drosophila SLRL test; Drosophila melanogaster; oral with up to 11000 ppm) - negative with and with metabolic activation In Vivo (Micronucleus assay; OECD TG 474; rat, oral with up to 500 mg/kg bw) - negative Only negative results were observed from the In Vivo tests, the substance was therefore considered as negative mutagenicity. 84852-15-3 4-Nonylphenol, branched Mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) In Vitro (Ames test; salmonella typhimurium) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vitro (Lordine	Mutagenicity	negative (Chinese Hamster) (In Vitro (AMES Test))
Mutagenicity negative (Test species listed below) In Vitro (Bacterial reverse mutation assay; OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - negative (in Vitro (Bacterial reverse mutation assay; OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - negative than d without metabolic activation In Vitro (Sister chromatid exchange assay in Chinese hamster Ovary (CHO) cells) - positive with metabolic activation In Vitro (Mammalian cell micronucleus test; OECD TG 487; Human (female) lymphocyte cultures) - positive with and with metabolic activation In Vitro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and with metabolic activation In Vivo (Dirosophila SLRL test; Drosophila melanogaster; oral with up to 11000 ppm) - negative with and with metabolic activation In Vivo (Dirosophila SLRL test; Drosophila melanogaster; oral with up to 1000 mg/kg bw) - negative In Vivo (Micronucleus assay; OECD TG 474; rat. oral with up to 500 mg/kg bw) - negative Only negative results were observed from the In Vivo tests, the substance was therefore considered as negative mutagenicity. Reference: ECHA (2012). Reference:		negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells))
Mutagenicity negative (Test species listed below) In Vitro (Bacterial reverse mutation assay; OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - negative with and without metabolic activation In Vitro (Sister chromatid exchange assay in Chinese hamster Ovary (CHO) cells) - positive with metabolic activation In Vitro (Mammalian cell micronucleus test; OECD TG 487; Human (female) lymphocyte cultures) - positive with and with metabolic activation In Vitro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and with metabolic activation In Vitro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and with metabolic activation In Vivo (Oprosphila SLRL test: Drosophila melanogaster; oral with up to 11000 ppm) - negative In Vivo (Sister chromatid exchange assay; rat; intraperitoneal with up to 100 mg/kg bw) - negative In Vivo (Micronucleus assay; OECD TG 474; rat, oral with up to 500 mg/kg bw) - negative Only negative results were observed from the In Vivo tests, the substance was therefore considered as negative mutagenicity Reference: ECHA (2012). 84852-15-3 4-Nonylphenol, branched Properties of the substance was therefore considered as negative mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12) In Vitro (Ames test; salmonella typhimurium) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vitro (Directive 79/831/EEC, B12; mouse) - no mutagenic effects in mouse erythrocytes were observed during the is sampling time. Reference: IUCLID Dataset (2000). • Potential Health Effect(s): No further relevant information; classification is not possible. Carcinogenicity negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 conce	400 40 0 D	
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Only negative results were observed from the In Vivo tests, the substance was therefore considered as negative mutagenicity. Reference: ECHA (2012). 84852-15-3 4-Nonylphenol, branched Mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) In Vitro (Ames test; salmonella typhimurium) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vivo (Directive 79/831/EEC, B12; mouse) - no mutagenic effects in mouse erythrocytes were observed during the sampling time. Reference: IUCLID Dataset (2000). Potential Health Effect(s): No further relevant information; classification is not possible. Carcinogenicity 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Carcinogenicity negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 concentration of the substance for two years. When considering all of the evidence, the substance was not classified a carcinogen. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Not listed as a carcinogen according to IARC, NTP, or OSHA.		metabolic activation
Only negative results were observed from the In Vivo tests, the substance was therefore considered as negative mutagenicity. Reference: ECHA (2012). 84852-15-3 4-Nonylphenol, branched Mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) In Vitro (Ames test; salmonella typhimurium) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vivo (Directive 79/831/EEC, B12; mouse) - no mutagenic effects in mouse erythrocytes were observed during the sampling time. Reference: IUCLID Dataset (2000). Potential Health Effect(s): No further relevant information; classification is not possible. Carcinogenicity 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Carcinogenicity negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 concentration of the substance for two years. When considering all of the evidence, the substance was not classified a carcinogen. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Not listed as a carcinogen according to IARC, NTP, or OSHA.		In VIVO (Drosopnila SLRL test; Drosopnila melanogaster; oral with up to 11000 ppm) - negative
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### Reference: ECHA (2012). ### 84852-15-3 4-Nonylphenol, branched ### Mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) In Vitro (Ames test; salmonella typhimurium) - negative with and without metabolic activation In Vivo (Directive 79/831/EEC, B12) In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vivo (Directive 79/831/EEC, B12; mouse) - no mutagenic effects in mouse erythrocytes were observed during the is sampling time. Reference: IUCLID Dataset (2000). **Potential Health Effect(s): No further relevant information; classification is not possible. **Carcinogenicity** #### 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin **Carcinogenicity** negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 1 out of 4 cases with female mice showed positive		Only negative results were observed from the In Vivo tests, the substance was therefore considered as negative
Reference: ECHA (2012). 84852-15-3 4-Nonylphenol, branched Mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) In Vitro (Ames test; salmonella typhimurium) - negative with and without metabolic activation In Vivo (Directive 79/831/EEC, B12; mouse) - no mutagenic effects in mouse erythrocytes were observed during the sampling time. Reference: IUCLID Dataset (2000). Potential Health Effect(s): No further relevant information; classification is not possible. Carcinogenicity 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Carcinogenicity negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 concentration of the substance for two years. When considering all of the evidence, the substance was not classified a carcinogenicity (Test species: n/a) (Not listed as a carcinogen according to IARC, NTP, or OSHA) (Not listed as a carcinogen according to IARC, NTP, or OSHA) (Not listed as a carcinogen according to IARC, NTP, or OSHA)		
Mutagenicity negative (mouse) (In Vivo (Directive 79/831/EEC, B12)) In Vitro (Ames test; salmonella typhimurium) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vivo (Directive 79/831/EEC, B12; mouse) - no mutagenic effects in mouse erythrocytes were observed during the sampling time. Reference: IUCLID Dataset (2000).		Reference: ECHA (2012).
In Vitro (Ames test; salmonella typhimurium) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vivo (Directive 79/831/EEC, B12; mouse) - no mutagenic effects in mouse erythrocytes were observed during the sampling time. Reference: IUCLID Dataset (2000). Potential Health Effect(s): No further relevant information; classification is not possible. Carcinogenicity 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Carcinogenicity negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 concentration of the substance for two years. When considering all of the evidence, the substance was not classified a carcinogenicity (Test species: n/a) Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to IARC, NTP, or OSHA.	84852-15-3 4	-Nonylphenol, branched
In Vitro (Ames test; salmonella typhimurium) - negative with and without metabolic activation In Vitro (HGPRT assay with OECD TG 476; Chinese Hamster) - negative with and without metabolic activation In Vivo (Directive 79/831/EEC, B12; mouse) - no mutagenic effects in mouse erythrocytes were observed during the sampling time. Reference: IUCLID Dataset (2000). Potential Health Effect(s): No further relevant information; classification is not possible. Carcinogenicity 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Carcinogenicity negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 concentration of the substance for two years. When considering all of the evidence, the substance was not classified a carcinogenicity (Test species: n/a) Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to IARC, NTP, or OSHA.	Mutagenicity	negative (mouse) (In Vivo (Directive 79/831/EEC, B12))
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Sampling time. Reference: IUCLID Dataset (2000). Potential Health Effect(s): No further relevant information; classification is not possible. Carcinogenicity Carcinogenicity negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 concentration of the substance for two years. When considering all of the evidence, the substance was not classified a carcinogenicity (Test species: n/a) (Not listed as a carcinogen according to IARC, NTP, or OSHA).		In Vitro (HGPK I assay with UECD IG 4/6; Chinese Hamster) - negative with and without metabolic activation
Reférence: IUCLID Dataset (2000). Potential Health Effect(s): No further relevant information; classification is not possible. Carcinogenicity 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Carcinogenicity negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 concentration of the substance for two years. When considering all of the evidence, the substance was not classified a carcinogenic. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) (Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to IARC, NTP, or OSHA.		
Potential Health Effect(s): No further relevant information; classification is not possible. Carcinogenicity 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Carcinogenicity negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 concentration of the substance for two years. When considering all of the evidence, the substance was not classified a carcinogen. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to IARC, NTP, or OSHA.		
Carcinogenicity 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Carcinogenicity negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 concentration of the substance for two years. When considering all of the evidence, the substance was not classified a carcinogenic. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to IARC, NTP, or OSHA.	· Poto	
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Carcinogenicity negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) (Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 concentration of the substance for two years. When considering all of the evidence, the substance was not classified a carcinogen. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to IARC, NTP, or OSHA.		
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carcinogen. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to IARC, NTP, or OSHA.		1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1
carcinogen. Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to IARC, NTP, or OSHA.		concentration of the substance for two years. When considering all of the evidence the substance was not classified a
Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i) Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to IARC, NTP, or OSHA.		
Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to IARC, NTP, or OSHA.	Alkyl phenol	blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i)
Not listed as a carcinogen according to IARC, NTP, or OSHA. Reference: Bayer (M)SDS (2007).	Carcinogenic	ity (Test species: n/a)
Reference: Bayer (M)SDS (2007).	54.510g01110	Not listed as a carcinogen according to IARC, NTP, or OSHA.
		Reference: Bayer (M)SDS (2007).



Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

(Contd. of page 8) 26142-30-3 Polymer of epichlorohydrin-polyglycol Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to ACGIH, IARC, NTP, or OSHA. 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Carcinogenicity (Test species: n/a) (Not listed by IARC, NTP, OSHA or ACGIH) 108-46-3 Resorcinol Carcinogenicity negative (Test species: n/a)
Not listed as a carcinogen by ACGIH, NTP, or OSHA; and listed as a Group 3 carcinogen by IARC, which was not classifiable as to its carcinogenicity to humans. 84852-15-3 4-Nonylphenol, branched Carcinogenicity negative (Test species: n/a) (not listed as a Carcinogen by NTP, IARC or OSHA) Reference: Hexion (M)SDS (2004). Potential Health Effect(s): Not a known Carcinogen. Reproductive Toxicity 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Reproductive Toxi. negative (Test species: n/a) (no reproductive or developmental effect observed)
There was no reproductive or developmental effect observed at dosing levels that were toxic to parental animals.
Reference: GHS-J (2006). Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i). Reproductive Toxi. (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Reproductive Toxi. (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Reproductive Toxi. (No data available) 108-46-3 Resorcinol Reproductive Toxi.

| negative (rat) |
| NOAEL (Toxicity to reproduction; OECD TG 416; both sexes; P, F0 and F1 generations; oral with up to 3000 mg/l) = 3000 mg/l; no relevant effects observed.
| NOAEL (Developmental toxicity; OECD TG 414; oral with up to 250 mg/kg/day; maternal toxicity) = 80 mg/kg bw/day; statistically significant body weight changes were observed in the maternal animals.
| NOAEL (Developmental toxicity; OECD TG 414; oral with up to 250 mg/kg/day; teratogenicity) = 250 mg/kg bw/day; no relevant effects observed. When considering all of the evidence, the substance was not classified as a reproductive Reference: ECHA (2012). 84852-15-3 4-Nonylphenol, branched Reproductive Toxi. positive (rat) (NOAEL (oral) = 15 mg/kg/day)
There were adverse effects on pups observed at the non-maternally toxic doses; the substance was therefore classified as a suspected reproductive hazard by EU.
Reference: EPA HPVIS (2010) and REACh CLP (2012). Potential Health Effect(s): Suspected of damaging fertility or the unborn child.

Not a known Reproductive hazard. · Specific Target Organ Toxicity - Single Exposure 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Target: None (Rats and Mice) (No effect after single oral doses)
Somnolence (general depressed activity) and dyspnea were observed after a single oral application with 11400 mg/kg to rats, or 15600 mg/kg to mice of the substance. However, the dose levels were both outside of the guidance value ranges.

Reference: NLM Toxnet (2010). STOT-Single Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i). STOT-Single (No data available, 26142-30-3 Polymer of epichlorohydrin-polyglycol STOT-Single (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica STOT-Single (dynamic) (No data available) 108-46-3 Resorcinol STOT-Single (Human)
Based on human epidemiological report, effects including restlessness, methemoglobinemia, cyanosis, dizziness, drowsiness, convulsions, tachycardia, dyspnea, decrease of body temperature, decrease of blood pressure, lower respiratory rate, jaundice, and even mortalities occurred after oral inoculation or percutaneous exposure of the substance. However, the substance was not a confirmed hazard via single exposure according to US Federal agencies. Classification was therefore not possible without further information.

Reference: GHS-J (2006) and ECHA (2012). 84852-15-3 4-Nonylphenol, branched STOT-Single (No data available) Potential Health Effect(s): Causes damage to organs. No relevant information; classification is not possible. Specific Target Organ Toxicity - Repeated Exposure 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

(Contd. on page 10)



Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

(Contd. of page 9) Target: N/A (guinea pig) (insufficient data for classification)
With dermal application of the substance for 55 days, increased seromucoid concentrations, decreased lactatedehydrogenase (LDH), and decreased leucylnaphthylamidase (LNA) were observed in the test animals. Meanwhile, the
substance caused a toxic effect on blood components of female guinea-pigs with greater effects on pregnant animals.
However, there was no detail available regarding the dose level or test guideline, classification was thus not possible.
Reference: HSNO CCID (2010). STOT-Repeated Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i). STOT-Repeated (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol STOT-Repeated (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica STOT-Repeated (No data available) 108-46-3 Resorcinol STOT-Repeated (rat)
NOAEL (OECD TG 408; oral with up to 250 mg/kg bw/day) = 80 mg/kg bw/day; effects including intermittent convulsive movements and excessive salivation were observed. However, ECHA determined it as conclusive but not sufficient for classification. Reference: GHS-J (2006) and ECHA (2012) 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), IUCLID Dataset (2000) and GHS-J (2006). · Potential Health Effect(s): No further relevant information; classification is not possible. Aspiration Hazard 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Aspiration Hazard (No data available) Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i). Aspiration Hazard (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol Aspiration Hazard (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Aspiration Hazard (No data available) 108-46-3 Resorcinol Aspiration Hazard (No data available) 84852-15-3 4-Nonylphenol, branched

Aspiration Hazard (No data available)

• Potential Health Effect(s): No relevant information; classification is not possible.

Additional Information No further relevant information.

· Aquatic Environme	ntal Toxicity
25068-38-6 Bispher	nol-A-(epichlorohydrin) epoxy resin
Algae Toxicity	(No data available)
Crustacean Toxicity	1.4 - 1.7 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs))
Fish Toxicity	1.41 mg/l (Oryzias latipes (Rice fish)) (LC50 (96 hrs)) 3.1 mg/l (Pimephales promelas (fathead minnow)) (LC50 (96 hrs)) Based on the non-rapid degradability and the acute LC50 < 10 mg/L, the substance is classified as a Chronic environmental hazard. Reference: CHRIP (2010).
Alkyl phenol block	ed polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i).
Algae Toxicity	(No data available)
Crustacean Toxicity	(No data available)
Fish Toxicity	(No data available)
	r of epichlorohydrin-polyglycol
Algae Toxicity	(No data available)
Crustacean Toxicity	(No data available)
Fish Toxicity	(No data available)
67762-90-7 Siloxan	es and Silicones, di-Me, reaction products with silica
Algae Toxicity	> 10000 mg/l (Scenedesmus subspicatus) (ErC50 (24 hrs), OECD 201)
Crustacean Toxicity	> 1000 mg/l (Daphnia magna (water flea)) (EC50 (24 hrs), OECD 202)
Fish Toxicity	> 10000 mg/l (Brachydanio rerio (Zebra fish)) (LC50 (96 hrs), OECD 203) Reference: Cabot (M)SDS (2012).
108-46-3 Resorcino	
Algae Toxicity	> 97 mg/l (Pseudokirchneriella subcapitata) (EC50 (72 hrs); OECD TG 201)



Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

(Contd. of page 10) 1.0 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs); OECD TG 202)
78 mg/l (Palaemonetes pugio) (LC50 (48 hrs); EPA 660/3-75-009)
Based on the rapid-degradability and the acute EC50 = 1mg/l, the substance is classified as an Acute-1 environmental Crustacean Toxicity 26.8 mg/l (Pimephales promelas (fathead minnow)) (LC50 (96 hrs); EPA-660/3/75-009)
34.7 mg/l (Leuciscus idus) (LC50 (96 hrs))
260 mg/l (Oncorhynchus mykiss) (EC50 (60 days); OECD Draft "ELS-Test")
Based on the chronic EC50 >> 1 mg/l, the substance is not classified as a chronic environmental hazard.
Petergoge: ECHA (2012) Fish Toxicity Reference: ECHA (2012). 84852-15-3 4-Nonylphenol, branched 0.27 mg/l (Skeletonema costatum) (EC50 (96 hrs)) (Pseudokirchneriella subcapitata) Algae Toxicity (Scenedesmus subspicatus) EC50 (72 hrs; Algenwachstums-Hemmtest nach UBA) = 1.3 mg/L C50 (12 firs, Algermacristums-Herninest hack)
0.15 mg/l (Hyalella azteca) (EC50 (96 hrs))
(Daphnia magna (water flea))
EC50 (48 hrs) = 0.035 mg/L Royce SDS (2015)
NOEC (21 days) = 0.024 mg/L
(Mysidopsis bahia)
EC50 (96 hrs) = 0.043 mg/L
NOEC (28 days) = 3.9 µg/L Crustacean Toxicity 0.14 mg/l (Pimephales promelas (fathead minnow)) Royce SDS (2015) Fish Toxicity

Aquatic Environmental Toxicity Assessment: Toxic to aquatic life with long lasting effects. Not a known Environmental hazard to aquatic life.

Degradability and Stability 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin non-biodegrad. (Test species: n/a) (Biodegradation (OECD TG 302B; 28 days) = 12%) (Activated Sludge) (OECD TG 301C; 4 weeks; Conc. 100 mg/L) Biodegradation (Indirect Analysis from BOD) = 0% Biodegradation (Direct Analysis from HPLC) = 0% The substance is non-biodegradable. Reference: CHRIP (2010). Biodegradation (Test species: n/a) (This substance is persistent) Reference: Canada DSL (2007) and CHRIP (2010). Persistence 6.69E-11 cm³/molecule-sec (OH radical) (Half-life (T1/2) = 1.92 hrs) However, photolysis in water is negligible. Photodegradation Stability in water (No data available) Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i). Biodegradation (No data available) Persistence . (No data available) Photodegradation (No data available) Stability in water (No data available) 26142-30-3 Polymer of epichlorohydrin-polyglycol (No data available)
Based on the persistent properties, the substance is expected to be non-biodegradable. Biodegradation (Test species: n/a) The substance is persistent. Reference: Canada DSL (2007). Persistence Photodegradation (No data available) Stability in water (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Biodegradation (No data available) (Test species: n/a) (The substance is not persistent) Reference: Canada DSL (2007). Persistence Photodegradation (No data available) Stability in water (No data available) 108-46-3 Resorcinol readily biodeg. (Test species: n/a) (OECD TG 301C; Chemical conc. 100 ppm; 2 weeks) Biodegradation (Indirect analysis from BOD) = 66.7% Biodegradation (Direct analysis from TOC, UV-vis, and HPLC) = 100%, 100%, and 100%. The substance is readily biodegradable. Reference: CHRIP (2012). Biodegradation Persistence (Test species: n/a) The substance is not persistent. Reference: Canada DSL (2007). 2.0E-10 cm³/molecule-sec (OH radical) Half-life (5E5 molecule/cm³) = 0.1 day Reference: ECHA (2012). Photodegradation 2 4 1 (Test species: n/a)
The substance has no functional groups susceptible to hydrolyze under environmentally relevant pH and temperature Stability in water conditions. Reference: ECHA (2012). (Contd. on page 12)



Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

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(Contd. of page 11)
84852-15-3 4-Nonylphenol, branched
                             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) = 8.9, 5.3, 2.5%
Biodegradation (Conc. 100 ppm; 2 weeks; Indirect analysis from BOD) = 0%
The substance is non-biodegradable.
Reference: NITE CHRIP (2010).
Biodegradation
                             (Test species: n/a) (The substance is not persistent) Reference: Canada DSL (2007).
Persistence
                            9.99E-11 cm³/molecule-sec (OH radical) (Half-life (5.0E5 OH/cm³) = 0.3 day)
Reference: IUCLID Dataset (2000).
Photodegradation
                             (No data available)
Stability in water
Bioaccumulation and Distribution
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin
              0.56-42 (Cyprinus carpio) (The substance is low-bioaccumulative)
BCF (28 days; Concentration: 10 μg/L) = 0.56 - 0.67, 3.3 - 4.2
BCF (28 days; Concentration: 1 μg/L) = 5.6 - 6.8, 33 - 42
Reference: CHRIP (2010).
              1800 - 4400 L/kg (soil)
Potential for mobility in soil is moderate.
Koc
LogPow 3.7 - 3.9 (Test species: n/a)
Alkyl phenol blocked polyisocyanate (The specific chemical identity has been withheld as a trade secret per 29CFR1910-1200(i).
BCF
               (No data available)
               (No data available)
Koc
LogPow (No data available)
26142-30-3 Polymer of epichlorohydrin-polyglycol
               (No data available)
BCF
               The substance is not or low bioaccumulative.
              Reference: Canada DSL (2007).
               (No data available)
Koc
LogPow (No data available)
67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica
              (No data available) (The substance is not bioaccumulative) Reference: Canada DSL CCR (2011).
BCF
Koc
               (No data available)
LogPow
               (No data available)
108-46-3 Resorcinol
BCF
              3.16 (Test species: n/a) (Calculated by EPISuite v 3.12)
              The substance is not bioaccumulative. Reference: ECHA (2012).
              10.36 L/kg (Test species: n/a) (20 °C)
The substance has very low soil sorption. Based on Level 3 Fugacity Modeling, the substance will partition primarily to soil (63.8%) and to a lesser extent water (36.1%).
Reference: ECHA (2012).
Koc
              0.8 (Test species: n/a) (20 °C)
Reference: ECHA (2012).
LoaPow
84852-15-3 4-Nonylphenol, branched
              90-330 (Cyprinus carpio) (The substance is not bioaccumulative)
BCF = 250 - 330 (8 weeks; Concentration: 0.1 ppm)
BCF = 90 - 220 (8 weeks; Concentration: 0.01 ppm)
(Pimephales promelas (fathead minnow))
BCF (20 days, chemical concentration = 21 µg/L) = 271
Reference: NITE CHRIP (2010) and IUCLID Dataset (2000).
RCF
              2580 - 25200 L/kg (Test species: n/a)
Calculated from Log Koc = 0.989 LogPow - 0.346 and LogPow of 3.8 - 4.8.
Reference: IUCLID Dataset (2000).
Koc
              3.8 - 4.8 (Test species: n/a)
Reference: IUCLID Dataset (2000)
LogPow
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Degradability and Bioaccumulation Assessment: No further relevant information; assessment is not possible.

Additional Information No further relevant information.

13 Disposal considerations

· Hazardous Waste List

Description: Regulated as a hazardous waste for disposal.

RCRA Waste:

108-46-3 Resorcinol

U201 1-2.5%

Additional Information of the Hazardous Waste List Classification was according to the U.S. Federal Regulation: 40 CFR 261.

Waste Treatment 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.

(Contd. on page 13)



Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

(Contd. of page 12)

Unused and Uncontaminated Packagings
 Recommendation Dispose of according to your local waste regulations.

4 Tuesday and information	
4 Transport information	
UN-Number DOT, ADR, IMDG, IATA	UN3082
· UN Proper Shipping Name · DOT, ADR, IMDG, IATA	Environmentally hazardous substances, liquid, n.o.s. (Bispher A-(epichlorohydrin) epoxy resin, Resorcinol)
· Transport hazard class(es) · DOT, IMDG, IATA	
· Class · Label	9 Miscellaneous dangerous substances and articles 9
ADR	
· Class · Label	9 (M6) Miscellaneous dangerous substances and articles 9
· Packing group · DOT, ADR, IMDG, IATA	III
Environmental Hazards: Marine Pollutant:	Yes Symbol (fish and tree) Symbol (fish and tree)
Special Marking (ADR): Special Marking (IATA):	Symbol (fish and tree)
Special Precautions: Danger Code (Kemler): EMS Number:	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F
Transport in Bulk according to Annex II of MARPOL IBC Code	·
· Transport/Additional Information:	
· DOT · Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit Special marking with the symbol (fish and tree).
: Remarks: ADR	Special marking with the symbol (lish and tree).
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":	UN3082, Environmentally hazardous substances, liquid, n.o (Bisphenol-A-(epichlorohydrin) epoxy resin, Resorcinol), 9, III

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) None of the ingredients is listed. · Section 311/312 (Hazardous Chemical Inventory Reporting) 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin 84852-15-3 4-Nonylphenol, branched A, C 40-50% A 1-<2.5% 1333-86-4 Carbon black A, C 0.1-<1% (Contd. on page 14)





Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

(Contd. of page 13) | A, C | 0.1-<1% 2530-83-8 Glycidyloxypropyltrimethoxysilane · Hazard Abbreviations for SARA 311/312 A - Acute Health Hazard C - Chronic Health Hazard F - Fire Hazard F - Fire Hazard R - Reactive Hazard S - Sudden Release of Pressure Hazard · TSCA (Toxic Substances Control Act) All ingredients are listed. Proposition 65 Chemicals Known to Cause Cancer 1333-86-4 Carbon black 106-89-8 1-chloro-2,3-epoxypropane · Chemicals Known to Cause Reproductive Toxicity for Females None of the ingredients is listed. · Chemicals Known to Cause Reproductive Toxicity for Males 106-89-8 1-chloro-2,3-epoxypropane Chemicals Known to Cause Developmental Toxicity 67-56-1 Methanol · Carcinogenic Categories · EPA (Environmental Protection Agency) None of the ingredients is listed. · IARC (International Agency for Research on Cancer) 108-46-3 Resorcinol 3 · NTP (National Toxicology Program) None of the ingredients is listed. · TLV (Threshold Limit Value Established by ACGIH) 108-46-3 Resorcinol A4 1333-86-4 Carbon black A4 NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. International Regulation Lists Canadian Domestic Substance Listings: All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%) None of the ingredients is listed. · Canadian Ingredient Disclosure list (limit 1%) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica 108-46-3 Resorcinol · Chinese Chemical Inventory of Existing Chemical Substances: All ingredients are listed. Japanese Existing and New Chemical Substance List: All ingredients are listed. · Korean Existing Chemical Inventory: All ingredients are listed. European Pre-registered substances: All ingredients are listed. REACh - Substances of Very High Concern (SVHC) List: 84852-15-3 4-Nonylphenol, branched 1-<2.5%

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

None of the ingredients is listed.

Abbreviations and acronyms:

Restriction of Hazardous Substances Directive (RoHS) list:

Abbreviations and acronyms:
ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DOT: US Department of Transportation
HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System
HPVIS: US EPA High Production Volume Information System
IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)
ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)





Print Date 09/22/2015 Revision Date 09/22/2015

Trade Name: EP1225 BLACK A

Date of preparation / last revision 09/22/2015 / 3

(Contd. of page 14)
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)
LC50/LD50: Lethal Concentration/Dose, 50 percent
N/a: 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
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
SARA: US Superfund Amendments and Reauthorization Act
TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions
(SCAPA) of US Department of Energy (DOE)
TSCA: US Toxic Substance Control Act
ACTOR: US EPA Aggregated Computational Toxicology Resource
BCF: Bioconcentration Factor
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
DSL: Canada Domestic Substance List CHRIP: Japan NITE information on Biological and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform
DSL: Canada Domestic Substance List
ECHA: European Chemical Substances Information System
HSDB: US NLM TOXNET Hazardous Substances Databank
HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database
IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)
ICSC: International Chemical Safety Cards
IUCLID: EU REACh International Uniform Chemical Information Database
Koc: Partition coefficient, soil Organic Carbon to water
NITE: National Institute of Technology and Evaluation, Japan
NLM TOXNET: US National Library of Medicine Toxicology Data Network
OECD: Organisation for Economic Co-operation and Development
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
SIDS: OECD existing chemicals Screening Information Data Sets
SVHC: EU ECHA Substance of Very High Concern
TOXLINE: US NLM bibliographic database search system
Date of preparation / last revision 09/22/2015 / 3

US