

Safety Data Sheet PRIMER E PART A Safety Data Sheet dated: 5/12/2015 - version 1 Date of first edition: 5/12/2015

1. IDENTIFICATION

Product identifier Mixture identification: Trade name: PRIMER E PART A Recommended use of the chemical and restrictions on use Recommended use: Primer Restrictions on use: N.A. Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party Company: MAPEI CORP. (USA and Puerto Rico) 1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

2. HAZARD(S) IDENTIFICATION



Classification of the chemical

Classification of the chemical

Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1	May cause an allergic skin reaction.
Carc. 2	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
Aquatic Chronic 2	Toxic to aquatic life with long lasting effects.

Label elements

Symbols:

Varning

Warning	
Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351.G	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
H411	Toxic to aquatic life with long lasting effects.
Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.2	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280.I	Wear protective gloves and eye protection.
P302+P352.A	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321.A	Specific treatment (see supplementary instructions on this label)

P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Quantity	Name	ldent. Numb.	Classification
70-80 %	Epoxy Resin	CAS:25068-38-6 EC:500-033-5 Index:603-074-00-8	Eye Irrit. 2A, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411
10-20 %	Alkyl epoxy resin	CAS:68609-97-2	Skin Irrit. 2, H315; Skin Sens. 1, H317
5-10 %	Epoxy resin	CAS:28064-14-4	Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411
0.1-1 %	Titanium dioxide	CAS:13463-67-7	Carc. 2, H351

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A. Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove persons to safety.

See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Control parameters

List of components with OEL value

Component	OEL Type Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Titanium dioxide	OSHA		15					
	ACGIH		10					A4 - Not Classifiable as a Human Carcinogen;lower respiratory tract irritation;
Appropriate enginee	ering controls: N.A.							

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid Appearance and colour: Viscous grey Odour: like: Hydrocarbons, aromatic Odour threshold: N.A. pH: N.A. Melting point / freezing point: N.A. Initial boiling point and boiling range: N.A. Flash point: >100 °C (212 °F) Evaporation rate: N.A. Upper/lower flammability or explosive limits: N.A. Vapour density: N.A. Vapour pressure: N.A. Relative density: 1.11 g/cm3 Solubility in water: N.A. Solubility in oil: N.A. Partition coefficient (n-octanol/water): N.A. Auto-ignition temperature: N.A. Decomposition temperature: N.A. Viscosity: N.A. Explosive properties: N.A. Oxidizing properties: N.A. Solid/gas flammability: N.A.

Other information

Substance Groups relevant properties N.A. Miscibility: N.A. Fat Solubility: N.A. Conductivity: N.A.

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Data not Available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:			
Epoxy Resin	a) acute toxicity	LD50 Oral Rat 11400mg/kg	
Epoxy resin	a) acute toxicity	LD50 Skin Rabbit > 5000,00000mg/kg LD50 Oral Rat > 11400,00000mg/kg	

a) acute toxicity

Titanium dioxide

LD50 Oral Rat > 10000mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

a) acute tox	icity
b) skin corro	osion/irritation
c) serious e	ye damage/irritation
d) respirator	ry or skin sensitisation
e) germ cell	mutagenicity
f) carcinoge	nicity
g) reproduct	tive toxicity
h) STOT-sir	ngle exposure
i) STOT-rep	eated exposure
j) aspiration	hazard
Substance(s) listed on the IARC Monographs	:
Titanium dic	oxide

Group 2B

Substance(s) listed as OSHA Carcinogen(s):

Substance(s) listed as NIOSH Carcinogen(s):

Titanium dioxide

Substance(s) listed on the NTP report on Carcinogens:

None

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

No Data Available

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

14. TRANSPORT INFORMATION

UN number

ADR-UN number: 3082 DOT - UN Number: UN3082 IATA-Un number: 3082 IMDG-Un number: 3082

UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin - Epoxy resin)

DOT - Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin - Epoxy resin)

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin - Epoxy resin)

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin - Epoxy resin)

Transport hazard class(es)

ADR-Class: 9

DOT - Hazard Class: 9

IATA-Class: 9

IMDG-Class: 9

Packing group

ADR-Packing Group: III DOT-Packing group: III IATA-Packing group: III IMDG-Packing group: III

Environmental hazards

Marine pollutant: Yes Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions

Department of Transportation (DOT): DOT-Special Provision(s): 8, 146, 173, 335, IB3, T4, TP1 DOT - Label(s): 9

DOT - Symbol: N/A DOT - Cargo Aircraft: N/A DOT - Passenger Aircraft: N/A DOT - Bulk: N/A DOT - Non-Bulk: N/A Road and Rail (ADR-RID): ADR exempt: No ADR-Label: 9 ADR - Hazard identification number: 90 ADR Tunnel Restriction Code: 3 (E) Air (IATA): IATA-Passenger Aircraft: 964 IATA-Cargo Aircraft: 964 IATA-Label: 9 IATA-Subrisk: -IATA-Erg: 9L IATA-Special Provisions: A97 A158 Sea (IMDG): IMDG-Stowage Code: Category A IMDG-Stowage Note: -IMDG-Subrisk: -IMDG-Special Provisions: 274 335 IMDG-Page: N/A IMDG-Label: 9 IMDG-EMS: F-A, S-F

IMDG-MFAG: N/A

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

Epoxy Resin	is listed in TSCA	Section 8b
Alkyl epoxy resin	is listed in TSCA	Section 8b
Epoxy resin	is listed in TSCA	Section 8b
Titanium dioxide	is listed in TSCA	Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

no substances listed

Section 304 - Hazardous substances:

no substances listed

Section 313 - Toxic chemical list:

no substances listed

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

no substances listed

CAA - Clean Air Act

CAA listed substances:

no substances listed

CWA - Clean Water Act

CWA listed substances:

no substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

Titanium dioxide Listed as carcinogen

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

Titanium dioxide

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Titanium dioxide

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

Titanium dioxide

16. OTHER INFORMATION

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer < state route of exposure if it is conclusively proven that no other routs of exposure cause the hazard>.
H351.G	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
H411	Toxic to aquatic life with long lasting effects.

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Product code: 2733

Additional classification information



HMIS Health: 1 = SLIGHT HMIS Health - Is health hazard chronic?: Yes HMIS Flammability: 1 = Combustible if heated HMIS Reactivity: 0 = MINIMAL HMIS P.P.E.: Safety glasses, gloves NFPA Health: 1 = SLIGHT NFPA Flammability: 1 = Combustible if heated NFPA Reactivity: 0 = MINIMAL NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

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

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA). ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

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

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.



Safety Data Sheet PRIMER E PART B Safety Data Sheet dated: 5/18/2015 - version 1 Date of first edition: 5/18/2015

1. IDENTIFICATION

Product identifier Mixture identification: Trade name: PRIMER E PART B Recommended use of the chemical and restrictions on use Recommended use: Primer

Restrictions on use: N.A.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-613-996-6666

2. HAZARD(S) IDENTIFICATION



Classification of the chemical

Classification of the chemical

Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause an allergic skin reaction.
May damage fertility. May damage the unborn child.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

Label elements

Symbols:



Code	Description
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Code	Description
0000	Description
P201	Obtain special instructions before use.
	•
P201	Obtain special instructions before use.
P201 P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
P201 P202 P260.1	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapours/spray.
P201 P202 P260.1 P264.2	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapours/spray. Wash skin thoroughly after handling.

P280.I	Wear protective gloves and eye protection.
P301+P312.A	IF SWALLOWED: Call a POISON CENTER if you feel unwell.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353.1	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310.A	Immediately call a POISON CENTER.
P321.A	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Quantity	Name	ldent. Numb.	Classification
40-50 %	4-Nonylphenol, branched	CAS:84852-15-3 EC:284-325-5 Index:601-053-00-8	Repr. 2, H361; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302
20-30 %	Fatty acids, tall-oil, polymers with bisphenol A, diethylenetriamine, epichlorohydrin and tetraethylenepentamine	CAS:68951-85-9	Skin Irrit. 2, H315; Eye Irrit. 2A, H319
10-20 %	Diethylene triamine	CAS:111-40-0	Skin Corr. 1B, H314; Skin Sens. 1, H317; Acute Tox. 4, H302; Acute Tox. 4, H312
1-5 %	2,4,6-Tri(dimethylaminomethyl)phenol	CAS:90-72-2	Skin Corr. 1B, H314; Skin Sens. 1A, H317; Aquatic Chronic 3, H412
1-5 %	Aminoethylethanolamine	CAS:111-41-1	Skin Corr. 1B, H314; Skin Sens. 1, H317; Repr. 1B, H360; STOT SE 3, H335
1-5 %	3-(Dimethylamino)-propylamine	CAS:109-55-7	Flam. Liq. 3, H226; Skin Corr. 1B, H314; Skin Sens. 1, H317; Acute Tox. 4, H302
1-5 %	N-Aminopropylmorpholine	CAS:123-00-2	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Aquatic Chronic 2, H411
0.1-1 %	Aminoethylpiperazine	CAS:140-31-8	Acute Tox. 3, H311; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand Wash with plenty of water.

wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

List of components	with OEL	value
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Component	OEL Type Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Diethylene triamine	ACGIH			1				Skin - potential significant contribution to overall exposure by the cutaneous route;eye and upper respiratory tract irritation;
Appropriate engine	ering controls: N.A.							
Individual protec	tion measures							
Eye protection:								
Use close t	fitting safety goggles, d	lon't use	eye lens.					
Protection for skin:								

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid Appearance and colour: amber Odour: like: Amines Odour threshold: N.A. pH: N.A. Melting point / freezing point: N.A. Initial boiling point and boiling range: N.A. Flash point: >93,3 °C (200,0 °F) Evaporation rate: N.A. Upper/lower flammability or explosive limits: N.A. Vapour density: N.A. Vapour pressure: N.A. Relative density: 0.96 g/cm3 Solubility in water: N.A. Solubility in oil: N.A. Partition coefficient (n-octanol/water): N.A. Auto-ignition temperature: N.A. Decomposition temperature: N.A. Viscosity: N.A. Explosive properties: N.A. Oxidizing properties: N.A. Solid/gas flammability: N.A. Substance Groups relevant properties N.A.

Other information

Miscibility: N.A. Fat Solubility: N.A. Conductivity: N.A.

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions **Chemical stability**

Data not Available.

Possibility of hazardous reactions

None

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

4-Nonylphenol, branched	a) acute toxicity	LD50 Oral Rat 1300mg/kg	
		LD50 Skin Rabbit > 2000mg/kg	
Diethylene triamine	a) acute toxicity	LD50 Skin Rabbit = 672mg/kg	
		LD50 Oral Rat = 819mg/kg	

2,4, 6-Tri(dimethylaminomethyl) phenol	a) acute toxicity	LD50 Skin Rat = 1280mg/kg
		LD50 Oral Rat = 1000mg/kg
Aminoethylethanolamine	a) acute toxicity	LD50 Skin Rabbit = 3560µL/kg
		LD50 Oral Rat = 2000mg/kg
3-(Dimethylamino)-propylamine	a) acute toxicity	LC50 Inhalation Rat > 431mg/l 4h
		LD50 Oral Rat = 922mg/kg
N-Aminopropylmorpholine	a) acute toxicity	LD50 Oral Rat = 1790mg/kg
Aminoethylpiperazine	a) acute toxicity	LD50 Skin Rabbit = 880µL/kg
		LD50 Oral Rat = 2140mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

a) acute toxicity

b) skin corrosion/irritation

c) serious eye damage/irritation

d) respiratory or skin sensitisation

e) germ cell mutagenicity

f) carcinogenicity

g) reproductive toxicity

h) STOT-single exposure

i) STOT-repeated exposure

j) aspiration hazard

Substance(s) listed on the IARC Monographs:

None

Substance(s) listed as OSHA Carcinogen(s):

None

Substance(s) listed as NIOSH Carcinogen(s):

None

Substance(s) listed on the NTP report on Carcinogens:

None

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
40-50 %	4-Nonylphenol, branched	CAS: 84852-15-3 - EINECS: 284-325-5 - 67-548-EC: 601-053-00-8	LC50 Fish Pimephales promelas0,135mg/L 96h ,,Holcombe, G.W., Phipps, G.L., Knuth, M.L. and Felhaber, T. (1984) Environ. Pollut. (Series A) 35, 367-38
			LC100 Fish Leuciscus idus1,1mg/L 48h ,,Huels study, 1988 (unpublished
			LC50 Fish Leuciscus idus0,95mg/L 48h ,,Huels study, 1988 (unpublished
			LOEC Fish Pimephales promelas14µg/L 33d ,,Chemical Manufacturers Association (1991) Two environmental effects 4-Nonylphenol final reports 1. Chronic toxicity of Nonylphenol to the Mysid, Mysidopsis bahia: EnviroSystems Study Number 8977-CMA 2. Early life stage toxicity of Nonylphenol to the fat
			NOEC Fish Pimephales promelas7,4µg/L 33d ,,Chemical Manufacturers Association (1991) Two environmental effects 4-Nonylphenol final reports 1. Chronic toxicity of Nonylphenol to the Mysid, Mysidopsis bahia: EnviroSystems Study Number 8977-CMA 2. Early life stage toxicity of Nonylphenol to the fat
			EC100 Daphnia Daphnia magna> 400μg/L 48h ,,Huels report No. DK-522, 1992 (unpublished
			EC0 Daphnia Daphnia magna< 100 μ g/L 48h ,,Huels report No. DK-522, 1992 (unpublished
			EC50 Daphnia Daphnia magna140 μ g/L 48h ,,Huels report No. DK-522, 1992 (unpublished

			LOEC Danhnia Danhnia magnas 100ug/L21d, Huels report No. DL-1/13, 1002 (uppublished
			LOEC Daphnia Daphnia magna> 100μg/L 21d ,,Huels report No. DL-143, 1992 (unpublished NOEC Daphnia Daphnia magna0,024mg/L 21d ICI PLC (1991) Nonyl Phenol: Chronic Toxicity to
			Daphnia Magna Report No: BLS1319/B (Interim) BL4176/B (Final)
			EC90 Algae Scenedesmus subspicatus (Desmodesmus subspicatus)3,2mg/L 72h Huels study (unpublished)
			EC10 Algae Scenedesmus subspicatus (Desmodesmus subspicatus)0,5mg/L 72h Huels study (unpublished)
			EC50 Algae Scenedesmus subspicatus (Desmodesmus subspicatus)1,3mg/L 72h Huels study
			(unpublished) LC50 a) Aquatic acute toxicity Fish Pimephales promelas= 135mg/L 96h IUCLID
			LC50 a) Aquatic acute toxicity Fish Lepomis macrochirus= 1351mg/L 96h EPA
			EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 14mg/L 48h IUCLID
			EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata36mg/L 96h EPA
			EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata00mg/L 50h ELA
			EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus= 13mg/L 72h IUCLID
10-20 %	Diethylene triamine	CAS: 111-40-0	LC50 a) Aquatic acute toxicity Fish Poecilia reticulata= 248mg/L 96h IUCLID
10-20 /8		CA3. 111-40-0	EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 16mg/L 48h IUCLID
			EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata= 1164mg/L 72h IUCLID
			EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata= 110-mg/L 121110CLD EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata= 345,60000mg/L 96h EPA
			EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus= 592mg/L 96h IUCLID
			LC50 a) Aquatic acute toxicity Fish Leuiciscus idus= 430,0000mg/L 96h
			EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 37,00000mg/L 24h
			EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 07,00000mg/L 48h
1-5 %	Aminoethylethanolamine	CAS: 111-41-1	LC50 a) Aquatic acute toxicity Fish Pimephales promelas= 728mg/L 96h IUCLID
1-0 /0	Annoeuryieuranoiamine		EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 22mg/L 48h IUCLID
			EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus= 210mg/L 72h IUCLID
1-5 %	3-(Dimethylamino)-propylamine	CAS: 109-55-7	EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 595mg/L 48h IUCLID
1-0 /0	o-(Dimetrylamino)-propylamine	0/10: 100-00-7	EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus= 562mg/L 72h IUCLID
			EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus= 02/mg/L 92h IOCLID
0.1-1 %	Aminoethylpiperazine	CAS: 140-31-8	LC50 a) Aquatic acute toxicity Fish Pimephales promelas1950mg/L 96h EPA
0.1-1 /0	, minocary, piperazine	0/10. 140-01-0	LC50 a) Aquatic acute toxicity Fish Poecilia reticulata> 1000mg/L 96h IUCLID
			LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss>= 100mg/L 96h IUCLID
			EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 32mg/L 48h IUCLID
			EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata= 495mg/L 72h IUCLID
Donaia	hance and degradability		
Persis	tence and degradability		
	N.A.		
Bioacc	umulative potential		
	N.A.		
Mobilit	ty in soil		
	N.A.		
Other	adverse effects		

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

14. TRANSPORT INFORMATION

UN number

ADR-UN number: 2735 DOT - UN Number: UN2735 IATA-Un number: 2735 IMDG-Un number: 2735

UN proper shipping name

ADR-Shipping Name: N.A. DOT - Proper Shipping Name: Amines, liquid, corrosive, n.o.s., (Contains: 4-Nonylphenol, branched, Diethylene triamine, 2,4, 6-Tri(dimethylaminomethyl)phenol)

IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (Contains: 4-Nonylphenol, branched, Diethylene triamine, 2,4, 6-Tri(dimethylaminomethyl)phenol)

Transport hazard class(es)

ADR-Class: 8

DOT - Hazard Class: 8

IATA-Class: 8

IMDG-Class: 8

Packing group

ADR-Packing Group: III DOT-Packing group: III IATA-Packing group: III IMDG-Packing group: III

Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A. **Special precautions** Department of Transportation (DOT): DOT-Special Provision(s): IB3, T7, TP1, TP28 DOT - Label(s): 8 DOT - Symbol: N/A DOT - Cargo Aircraft: N/A DOT - Passenger Aircraft: N/A DOT - Bulk: N/A DOT - Non-Bulk: N/A Road and Rail (ADR-RID): ADR-Label: 8 ADR - Hazard identification number: 80 ADR Tunnel Restriction Code: 3 (E) Air (IATA): IATA-Passenger Aircraft: 852 IATA-Cargo Aircraft: 856 IATA-Label: 8 IATA-Subrisk: -IATA-Erg: 8L IATA-Special Provisions: A3 A803 Sea (IMDG): IMDG-Stowage Code: Category A

IMDG-Stowage Note: "Separated from" acids. IMDG-Subrisk: -

IMDG-Special Provisions: 223 274 IMDG-Page: N/A IMDG-Label: N/A IMDG-EMS: F-A, S-B IMDG-MFAG: N/A

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

Date

All the components are listed on the TSCA inventory

TSCA listed substances:

	4-Nonylphenol, branched	is listed in TSCA	Section 8b, Section 8a - PAIR		
	Fatty acids, tall-oil, polymers with bis A, diethylenetriamine, epichlorohydr tetraethylenepentamine		Section 8b		
	Diethylene triamine	is listed in TSCA	Section 8b		
5/18/2015	Production Name	PRIMER E PART B			

2,4,6-Tri(dimethylaminomethyl)phenol	is listed in TSCA	Section 8b
Aminoethylethanolamine	is listed in TSCA	Section 8b
3-(Dimethylamino)-propylamine	is listed in TSCA	Section 8b
N-AminopropyImorpholine	is listed in TSCA	Section 8b
Aminoethylpiperazine	is listed in TSCA	Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

no substances listed

Section 304 - Hazardous substances:

no substances listed

Section 313 - Toxic chemical list:

no substances listed

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

no substances listed

CAA - Clean Air Act

CAA listed substances:

no substances listed

CWA - Clean Water Act

CWA listed substances:

no substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

Diethylene triamine

Listed as carcinogen

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

- Diethylene triamine
- Aminoethylethanolamine

3-(Dimethylamino)-propylamine

- N-Aminopropylmorpholine
- Aminoethylpiperazine

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

- Diethylene triamine
- Aminoethylethanolamine
- 3-(Dimethylamino)-propylamine
- N-AminopropyImorpholine
- Aminoethylpiperazine

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

- Diethylene triamine
- Aminoethylethanolamine
- 3-(Dimethylamino)-propylamine
- N-Aminopropylmorpholine
- Aminoethylpiperazine

16. OTHER INFORMATION

Code	Description			
H226	Flammable liquid and vapour.			
H302	Harmful if swallowed.			
H311	Toxic in contact with skin.			
H312	Harmful in contact with skin.			
H314	Causes severe skin burns and eye damage.			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.			
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.			
H335	May cause respiratory irritation.			
H360	May damage fertility or the unborn child <state effect="" if="" known="" specific=""> <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state></state>			
H360FD	May damage fertility. May damage the unborn child.			
H361	Suspected of damaging fertility or the unborn child <state effect="" if="" known="" specific=""> <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state></state>			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
H411	Toxic to aquatic life with long lasting effects.			
H412	Harmful to aquatic life with long lasting effects.			
Safety Data Sheet dated: 5/18/2015 - version 1				

Product code: 2734

Additional classification information



HMIS Health: 3 = Serious HMIS Health - Is health hazard chronic?: Yes HMIS Flammability: 1 = Combustible if heated HMIS Reactivity: 0 = Minimal HMIS P.P.E.: Safety glasses, gloves, chemical apron NFPA Health: 3 = Serious NFPA Flammability: 1 = Combustible if heated NFPA Reactivity: 0 = Minimal NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

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

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

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

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.