

CONATHANE® EN-2541 Part A Urethane Prepolymer

Version 3

Revision Date 01/15/2019

Print Date 01/15/2019

SECTION 1. IDENTIFICATION

Product name : CONATHANE® EN-2541 Part A Urethane Prepolymer

Manufacturer or supplier's details

 Company : ELANTAS PDG, INC.
 5200 North 2nd Street
 St. Louis MO 63147
 Telephone : (314) 621-5700
 Visit our web site : www.elantas.com
 E-mail address : Todd.Thomas@altana.com
 Emergency telephone : INFOTRAC - 1-800-535-5053
 number

Recommended use of the chemical and restrictions on use

Recommended use :

Restrictions on use : Refer to Section 15 for any restrictions that may apply

SECTION 2. HAZARDS IDENTIFICATION
GHS Classification

 Acute toxicity (Inhalation) : Category 4
 Skin irritation : Category 2
 Eye irritation : Category 2A
 Respiratory sensitisation : Category 1
 Skin sensitisation : Category 1
 Carcinogenicity : Category 2
 Specific target organ toxicity : Category 3 (Respiratory system)
 - single exposure
 Specific target organ toxicity : Category 2
 - repeated exposure

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GHS label elements

Hazard pictograms :



Signal word : Danger

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- Hazard statements** : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
- Precautionary statements** : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P285 In case of inadequate ventilation wear respiratory protection.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
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.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
Hazardous components

Component	CAS-No.	Concentration (%)
Polymeric MDI	9016-87-9	>= 45 - < 46
Isocyanates	101-68-8	>= 35 - < 36
Methylenediphenyl diisocyanate	26447-40-5	>= 20 - < 21

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Call a physician or poison control centre immediately.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

- Unsuitable extinguishing media : High volume water jet
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : Store under conditions specified on the product Technical Data Sheet to maintain product quality.
Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
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		(Form of exposure)	parameters / Permissible concentration	
Isocyanates	101-68-8	TWA	0.005 ppm	ACGIH
Isocyanates		C	0.02 ppm 0.2 mg/m3	OSHA Z-1
Methylenediphenyl diisocyanate	26447-40-5	C	0.02 ppm 0.2 mg/m3	OSHA Z-1
Methylenediphenyl diisocyanate		C	0.02 ppm 0.2 mg/m3	OSHA P0

Hazardous components without workplace control parameters

Engineering measures : Use with adequate ventilation.
 All application areas should be ventilated in accordance with applicable OSHA regulations. (29 CFR 1910.94)

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection
 Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
 Tightly fitting safety goggles
 Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
 When using do not smoke.
 Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling : No data available

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range

Vapour pressure : No data available

Flash point : > 201 °F (> 94 °C)
Method: No information available.
Information taken from reference works and the literature.

Upper explosion limit : No data available

Lower explosion limit : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Relative vapour density : No data available

Relative Density/Specific Gravity : No data available

Density : 1.2392 g/cm³ (77 °F (25 °C))

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Ignition temperature : No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 22 mm²/s (104 °F (40 °C))**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

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Conditions to avoid : No data available

Hazardous decomposition products : Carbon monoxide in a fire.
Nitrogen oxides in a fire.

SECTION 11. TOXICOLOGICAL INFORMATION
Information on likely routes of exposure
Acute toxicity
Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 1.5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:
9016-87-9 Polymeric MDI:

Acute oral toxicity : LD50 (Rat, male and female): > 10.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 0.31 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: Harmful by inhalation.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 9,400 mg/kg
Method: OECD Test Guideline 402

101-68-8 Isocyanates:

Acute oral toxicity : LD50 (Rat): 2,200 mg/kg

LD50 (Rat, male and female): > 2,000 mg/kg
Method: Tested according to Annex V of Directive 67/548/EEC.
GLP: yes

Acute inhalation toxicity : LC50 (Rat): 178 mg/l

LC50 (Rat, male): 1.5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

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Acute dermal toxicity : (Rabbit): > 10,000 mg/kg

26447-40-5 Methylenediphenyl diisocyanate:

Acute oral toxicity : LD50 (Rat): 15,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 490 ppm

Acute dermal toxicity : LD50 : Remarks: No data available

Skin corrosion/irritation**Product:**

Remarks: May cause skin irritation and/or dermatitis.

Components:**9016-87-9 Polymeric MDI:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: slight irritation

101-68-8 Isocyanates:

Species: Rabbit

Result: Mild skin irritation

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Serious eye damage/eye irritation**Product:**

Remarks: May cause irreversible eye damage.

Components:**9016-87-9 Polymeric MDI:**

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

101-68-8 Isocyanates:

Species: Rabbit

Result: Moderate eye irritation

Method: Draize Test

Species: Rabbit

Result: No eye irritation

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Method: OECD Test Guideline 405

Respiratory or skin sensitisation**Product:**

Remarks: Causes sensitisation.

Components:**9016-87-9 Polymeric MDI:**

Test Type: Maximisation Test

Exposure routes: Skin contact

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Result: negative

Test Type: Mouse Local Lymph Node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429

Result: positive

Exposure routes: intratracheal

Species: Rat

Assessment: May cause sensitisation by inhalation.

Result: positive

101-68-8 Isocyanates:

Species: Guinea pig

Method: Draize Test

Result: Causes sensitisation.

Test Type: Buehler Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

GLP: yes

Germ cell mutagenicity**Components:****9016-87-9 Polymeric MDI:**

Genotoxicity in vitro

: Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

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Genotoxicity in vivo : Test Type: Micronucleus test
Test species: Rat (male)
Application Route: Inhalation
Exposure time: 3x1h/day over 3 weeks)
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity-
Assessment : In vitro tests did not show mutagenic effects, In vivo tests did
not show mutagenic effects

101-68-8 Isocyanates:

Genotoxicity in vitro : Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Test species: Rat (male)
Application Route: Inhalation
Exposure time: 3x1 h/ day over 3 weeks
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity-
Assessment : In vitro tests did not show mutagenic effects, In vivo tests did
not show mutagenic effects

Carcinogenicity**Components:****9016-87-9 Polymeric MDI:**

Species: Rat, (male and female)
Application Route: Inhalation
Exposure time: 2 h
Dose: 0 - 0,2 - 1 - 6 mg/m³
Frequency of Treatment: 6 hours/day, 5 days/week
Method: OECD Test Guideline 453
Test substance: see user defined free text

Carcinogenicity - : Suspected of causing cancer if inhaled.
Assessment

101-68-8 Isocyanates:

Species: Rat, (male and female)
Exposure time: 2 hrs
Dose: 0 - 0,2 - 1 - 6 mg/m³
Frequency of Treatment: 6 hours/ day, 5 days/ week
Method: OECD Test Guideline 453

Carcinogenicity - : Suspected of causing cancer if inhaled.

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Assessment

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity**Components:****9016-87-9 Polymeric MDI:**

Effects on foetal development

: Species: Rat, female
 Application Route: Inhalation
 Exposure time: 20 days
 Dose: 0 - 1 - 4 - 12 mg/m³
 12 mg/m³
 4 mg/m³
 Number of exposures: 6 hours/day (Exposure duration)
 Method: OECD Test Guideline 414

Reproductive toxicity - Assessment

: Based on available data, the classification criteria are not met. Did not show teratogenic effects in animal experiments.

101-68-8 Isocyanates:

Effects on foetal development

: Species: Rat, female
 Application Route: Inhalation
 Dose: 0 - 1 - 4 - 12 mg/m³
 12 mg/m³
 4 mg/m³
 Number of exposures: 6 hours/day
 Method: OECD Test Guideline 414

Reproductive toxicity - Assessment

: Based on available data, the classification criteria are not met. Did not show teratogenic effects in animal experiments.

STOT - single exposure**Components:****9016-87-9 Polymeric MDI:**

Exposure routes: Inhalation

Target Organs: Respiratory organs

Assessment: May cause respiratory irritation.

101-68-8 Isocyanates:

Exposure routes: Inhalation

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Target Organs: Respiratory Tract
Assessment: May cause respiratory irritation.

STOT - repeated exposure**Components:****9016-87-9 Polymeric MDI:**

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause damage to organs through prolonged or repeated exposure.

101-68-8 Isocyanates:

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity**Components:****9016-87-9 Polymeric MDI:**

Species: Rat, male and female

NOAEL: 0,2 mg/m³

Application Route: Inhalation

Exposure time: 2 h

Number of exposures: 6 hours a day, 5 days a week

Dose: 0 - 0,2 - 1 - 6 mg/m³

Method: OECD Test Guideline 453

Repeated dose toxicity - Assessment : Harmful if inhaled., The product causes irritation of eyes, skin and mucous membranes.

101-68-8 Isocyanates:

Species: Rat, male and female

NOAEL: 0,2 mg/m³

Application Route: Inhalation

Exposure time: 2 hrs

Number of exposures: 6 hours/ day, 5 days/ week

Dose: 0 - 0,2 - 1 - 6 mg/m³

Method: OECD Test Guideline 453

Target Organs: Lungs, Nasal inner lining

Repeated dose toxicity - Assessment : Harmful if inhaled., The product causes irritation of eyes, skin and mucous membranes.

Aspiration toxicity**Components:****9016-87-9 Polymeric MDI:**

No aspiration toxicity classification

101-68-8 Isocyanates:

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No aspiration toxicity classification

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

: WC: B

Waste from residues

: Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging

: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

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SECTION 14. TRANSPORT INFORMATION
International Regulations
IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations
49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION
EPCRA - Emergency Planning and Community Right-to-Know Act
US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Isocyanates	101-68-8	5000	14286

SARA 304 - Emergency Release Notification

This material does not contain any components with a section 304 EHS RQ.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

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Polymeric MDI	9016-87-9	45 %
Isocyanates	101-68-8	35 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Isocyanates	101-68-8	35 %
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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Isocyanates	101-68-8	35 %
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Non-volatile (Wt) : Refer to the product technical data sheet for VOC information.

Massachusetts Right To Know

Isocyanates	101-68-8
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Pennsylvania Right To Know

Polymeric MDI	9016-87-9
Isocyanates	101-68-8
Methylenediphenyl diisocyanate	26447-40-5

New Jersey Right To Know

Polymeric MDI	9016-87-9
Isocyanates	101-68-8
Methylenediphenyl diisocyanate	26447-40-5

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : Not Applicable

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

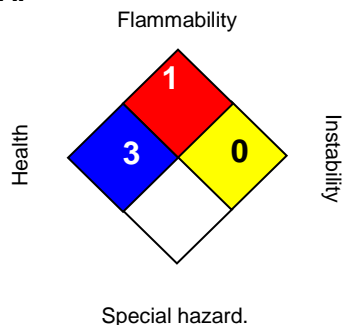
TSCA	: We certify that all of the components of this product are either listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720.30(h).
Section 4 / 12(b)	: Not applicable
Section 5	: Not applicable
DSL	: We certify that all of the components of this product are listed on the DSL.

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SECTION 16. OTHER INFORMATION
Further information
NFPA:

HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.


chemical-concepts.com
800.220.1966

410 Pike Road • Huntingdon Valley, PA 19006

CONATHANE® EN-2541 Part B Black Curative

Version 1

Revision Date 01/04/2019

Print Date 01/04/2019

SECTION 1. IDENTIFICATION

Product name : CONATHANE® EN-2541 Part B Black Curative

Manufacturer or supplier's details

 Company : ELANTAS PDG, INC.
 5200 North 2nd Street
 St. Louis MO 63147
 Telephone : (314) 621-5700
 Visit our web site : www.elantas.com
 E-mail address : Todd.Thomas@altana.com
 Emergency telephone number : INFOTRAC - 1-800-535-5053

Recommended use of the chemical and restrictions on use

 Recommended use : Electrical Insulation
 Restrictions on use : Refer to Section 15 for any restrictions that may apply

SECTION 2. HAZARDS IDENTIFICATION
GHS Classification

 Carcinogenicity : Category 1A
 Specific target organ toxicity - repeated exposure (Inhalation) : Category 1 (Lungs)

GHS label elements

Hazard pictograms :



Signal word : Danger

 Hazard statements : H350 May cause cancer.
 H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

 Precautionary statements : **Prevention:**
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/ protective clothing/ eye protection/


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face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Modified Polyol Blend

Hazardous components

Component	CAS-No.	Concentration (%)
Crystalline silica	14808-60-7	>= 47 - < 48
Antimony compounds	1309-64-4	>= 5 - < 6
Carbon black	1333-86-4	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

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SECTION 5. FIREFIGHTING MEASURES

- Unsuitable extinguishing media : High volume water jet
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Crystalline silica	14808-60-7	TWA (total dust)	30 mg/m ³ / %SiO ₂ +2	OSHA Z-3
Crystalline silica		TWA (respirable)	250 mppcf / %SiO ₂ +5	OSHA Z-3
Crystalline silica		TWA (respirable)	10 mg/m ³ / %SiO ₂ +2	OSHA Z-3
Crystalline silica		TWA (respirable dust fraction)	0.1 mg/m ³	OSHA P0
Crystalline silica		TWA (Respirable fraction)	0.025 mg/m ³ (Silica)	ACGIH
Antimony compounds	1309-64-4	TWA	0.5 mg/m ³ (antimony)	OSHA Z-1
Antimony compounds		TWA	0.5 mg/m ³ (antimony)	OSHA P0
Antimony compounds		TWA	0.5 mg/m ³ (antimony)	NIOSH REL
Carbon black	1333-86-4	TWA	3.5 mg/m ³	ACGIH
Carbon black		TWA	3.5 mg/m ³	OSHA Z-1

Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Vapour pressure	: No data available
Flash point	: > 201 °F (> 94 °C) Method: No information available. Information taken from reference works and the literature.
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Relative vapour density	: No data available
Relative Density/Specific Gravity	: No data available
Density	: 1.69 g/cm ³ (77 °F (25 °C))
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available

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 Viscosity, kinematic : > 21 mm²/s (104 °F (40 °C))

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
 Chemical stability : No decomposition if stored and applied as directed.
 Possibility of hazardous reactions : No decomposition if stored and applied as directed.
 Conditions to avoid : No data available

SECTION 11. TOXICOLOGICAL INFORMATION
Information on likely routes of exposure
Acute toxicity
Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
 Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg
 Method: Calculation method

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitisation
Carcinogenicity
IARC

Group 1: Carcinogenic to humans

Crystalline silica 14808-60-7

Group 2B: Possibly carcinogenic to humans

Antimony compounds 1309-64-4

Carbon black 1333-86-4

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Known to be human carcinogen

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Crystalline silica

14808-60-7

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

: WC: C

Waste from residues

: Do not dispose of waste into sewer.
 Do not contaminate ponds, waterways or ditches with chemical or used container.
 Send to a licensed waste management company.

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Contaminated packaging : Empty remaining contents.
 Dispose of as unused product.
 Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION
International Regulations
IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations
49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION
EPCRA - Emergency Planning and Community Right-to-Know Act
US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Antimony compounds	1309-64-4	1000	20000

SARA 304 - Emergency Release Notification

This material does not contain any components with a section 304 EHS RQ.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards

: Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

SARA 302

: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 313 : This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Antimony compounds	1309-64-4	5 %
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Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Antimony compounds	1309-64-4	5 %
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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

Glyceryl polypropylene glycol ether	25791-96-2	11.6 %
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Non-volatile (Wt) : Refer to the product technical data sheet for VOC information.

Massachusetts Right To Know

Crystalline silica	14808-60-7
Antimony compounds	1309-64-4

Pennsylvania Right To Know


Crystalline silica	14808-60-7
Castor oil	8001-79-4
Glyceryl polypropylene glycol ether	25791-96-2
PCFR 99 – 100%	13560-89-9
Antimony compounds	1309-64-4

New Jersey Right To Know

Crystalline silica	14808-60-7
Castor oil	8001-79-4
Glyceryl polypropylene glycol ether	25791-96-2
PCFR 99 – 100%	13560-89-9
Antimony compounds	1309-64-4
Carbon black	1333-86-4

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : Not Applicable

California Prop. 65

 **WARNING:** This product can expose you to chemicals including Crystalline silica, Antimony compounds, Carbon black, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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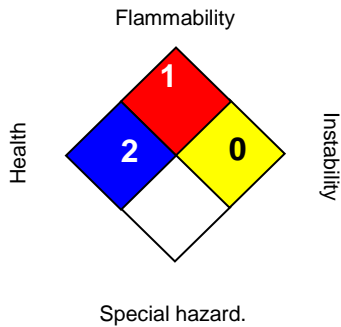
The components of this product are reported in the following inventories:

- TSCA : We certify that all of the components of this product are either listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720 30(h).
- Section 4 / 12(b) : Not applicable
- Section 5 : Not applicable
- DSL : We certify that all of the components of this product are listed on the DSL.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.