Printing date 03/03/2020 Reviewed on 10/28/2019

1 Identification

- · Product identifier
- · Trade name: Pro-FlexTM Part A
- · Article number: 140255A
- · Application of the substance / the mixture
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Dayton® Superior

4226 Kansas Avenue

Kansas City, KS 66106

Tel.: (866) 329-8724

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call international number, +1 703 741-5970. Collect calls are accepted.

· Information department: Environmental, Health, and Safety department.

2 Hazard(s) identification

· Classification of the substance or mixture

Eye Irrit. 2A H319 Causes serious eye irritation.

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

Carc. 2 H351 Suspected of causing cancer. Aquatic Acute 3 H402 Harmful to aquatic life.

Aquatic Chronic 3 H412 Harmful 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).
- · Hazard pictograms





GHS07

GHS08

- · Signal word Warning
- · Hazard-determining components of labeling:

4-nonylphenol, branched

titanium dioxide

· Hazard statements

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wash contaminated clothing before reuse.

Store locked up.

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

(Contd. on page 2)

Printing date 03/03/2020 Reviewed on 10/28/2019

Trade name: Pro-FlexTM - Part A

(Contd. of page 1)

- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- \cdot **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous com	ponents:	
25085-99-8 Dig	lycidyl ether of bisphenol A homopolymer	≥10-<60%
84852-15-3 4-n	onylphenol, branched	≥5-<7%
13463-67-7 titai	nium dioxide	≥0.1-<3.5%
64742-48-9 Nap	ohtha (petroleum), hydrotreated heavy	<2.75%
471-34-1 cald	cium carbonate	<2.2%

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

In the event of persistent symptoms recieve medical treatment.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Seek medical treatment.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

Printing date 03/03/2020 Reviewed on 10/28/2019

Trade name: Pro-FlexTM - Part A

(Contd. of page 2)

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment:

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage: cool and dry
- Requirements to be met by storerooms and receptacles: Store in a cool dry location.
- · Information about storage in one common storage facility:

Store away from incompatible materials.

Store away from foodstuffs.

- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

(Contd. on page 4)

Printing date 03/03/2020 Reviewed on 10/28/2019

Trade name: Pro-FlexTM - Part A

(Contd. of page 3)

471-34-1 calcium carbonate

PEL Long-term value: 15*5** mg/m³

*total dust **respirable fraction

REL | Long-term value: 10*5** mg/m³

*total dust **respirable fraction

TLV TLV withdrawn

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Eye protection: Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid
Color: Grey
Odor: Mild

· Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

· Decomposition temperature:

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

• Flash point: $>94 \, ^{\circ}C \, (>201.2 \, ^{\circ}F)$

· Flammability (solid, gaseous): Not applicable.

· Auto igniting: Product is not selfigniting.

• Danger of explosion: Product does not present an explosion hazard.

Not determined.

· Explosion limits:

Lower: Not determined.
Upper: Not determined.

· Vapor pressure: Not determined.

(Contd. on page 5)

Printing date 03/03/2020 Reviewed on 10/28/2019

Trade name: $Pro-Flex^{TM}$ - Part A

		(Contd. of page
· Density at 20 °C (68 °F):	1.19 g/cm³ (9.93055 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Solids content:	100.0 %	
· Other information	No further relevant information available.	
· Volatile Organic Compounds:	Contains less than 10 g/L	

10 Stability and reactivity

- · Reactivity No decomposition if stored and applied as directed.
- · Chemical stability No decomposition if stored and applied as directed
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Keep away from heat and sources of ignition.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

25085-99-8 Diglycidyl ether of bisphenol A homopolymer

 Oral
 LD50
 5,000 mg/kg (rat)

 Dermal
 LD50
 20,000 mg/kg (rabbit)

- Primary irritant effect:
- · on the skin: May cause skin irritation.
- · on the eye:

Strong irritant with the danger of severe eye injury.

Irritating effect.

- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

14807-96-6 Talc

|-

(Contd. on page 6)

Printing date 03/03/2020 Reviewed on 10/28/2019

Trade name: $Pro-Flex^{TM}$ - Part A

	(Contd. of page 5)
13463-67-7 titanium dioxide	28
14808-60-7 Quartz (SiO2)	1
· NTP (National Toxicology Program)	
14808-60-7 Quartz (SiO2)	K
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- $\cdot \textbf{\it Bioaccumulative potential} \ No \ further \ relevant \ information \ available.$
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of as normal garbage. Do not allow product to reach sewage system.

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

- · UN-Number
- · DOT, ADR, ADN, IATA

Not Regulated UN3082

· IMDG

(Contd. on page 7)

Printing date 03/03/2020 Reviewed on 10/28/2019

Trade name: Pro-FlexTM - Part A

	(Contd. of page
· UN proper shipping name · DOT, ADR, ADN, IATA · IMDG	Not Regulated ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (epoxy resin), MARINE POLLUTANT
Transport hazard class(es)	
· DOT, ADR, ADN, IATA · Class	Not Regulated
·IMDG	
Class Label	9 Miscellaneous dangerous substances and articles 9
· Packing group · DOT, ADR, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: zin oxide
Marine pollutant:	Yes Symbol (fish and tree)
Special precautions for user EMS Number: Stowage Category	F-A,S-F A
Transport in bulk according to Annex II of MARPOL73, and the IBC Code	/78 Not applicable.
Transport/Additional information:	••
· DOT · Remarks:	Add "Marine Pollutant" to end of proper shipping name shipping in a bulk container (>119 gallons).
ADR U.S. Domestic Ground Shipments: U.S. Domestic Ground Non-Bulk (119 gal or less per	Same as listed for Standard Shipments above.
container) Shipments:	Same as listed for Standard Shipments above.
Emergency Response Guide (ERG) Number:	Not determine
· 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":	Not Regulated

Printing date 03/03/2020 Reviewed on 10/28/2019

Trade name: Pro-FlexTM - Part A

· MAK (German Maximum Workplace Concentration)

14807-96-6 Talc

	(Contd. of pag
Regulatory information	
Safety, health and environmental regulations/legislation specific for the substanc Sara	ce or mixture
Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	
Section 313 (Specific toxic chemical listings): This product may contain 1 or more toxic chemicals subject to the reporting req Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part	372. If so, the chemicals are listed below
84852-15-3 4-nonylphenol, branched	≥5-<7
TSCA (Toxic Substances Control Act):	
25085-99-8 Diglycidyl ether of bisphenol A homopolymer	ACTIV
84852-15-3 4-nonylphenol, branched	ACTIV
14807-96-6 Talc	ACTIV
2461-15-6 [[(2-ethylhexyl)oxy]methyl]oxirane	ACTIV
13463-67-7 titanium dioxide	ACTIV
64742-48-9 Naphtha (petroleum), hydrotreated heavy	ACTIV
471-34-1 calcium carbonate	ACTIV
67762-90-7 Hydrophobic silica	ACTIV
63148-62-9 Siloxanes and Silicones, di-Me	ACTIV
546-93-0 Magnesite	ACTIV
14808-60-7 Quartz (SiO2)	ACTIV
Hazardous Air Pollutants	·
None of the ingredients is listed.	
Proposition 65	
Chemicals known to the State of California (Prop. 65) to cause cancer:	
13463-67-7 titanium dioxide	
14808-60-7 Quartz (SiO2)	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACGIH)	
14807-96-6 Talc	
13463-67-7 titanium dioxide	
14808-60-7 Quartz (SiO2)	

Printing date 03/03/2020 Reviewed on 10/28/2019

Trade name: Pro-FlexTM - Part A

	(Contd. of page 8)
13463-67-7 titanium dioxide	<i>3A</i>
14808-60-7 Quartz (SiO2)	1
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
13463-67-7 titanium dioxide	
14808-60-7 Quartz (SiO2)	

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





GHS07 GHS08

- · Signal word Warning
- · Hazard-determining components of labeling:

4-nonylphenol, branched

titanium dioxide

· Hazard statements

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wash contaminated clothing before reuse.

Store locked up.

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

- · National regulations:
- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 SDS: Environmental, Health & Safety Department
- · Contact: Environmental, Health & Safety Manager
- · Date of preparation / last revision 03/03/2020 / 96
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

(Contd. on page 10)

Printing date 03/03/2020 Reviewed on 10/28/2019

Trade name: Pro-FlexTM - Part A

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

OSHA: Occupational Safety & Healt TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 (Contd. of page 9)

US

Printing date 03/03/2020 Reviewed on 03/03/2020

1 Identification

- · Product identifier
- · Trade name: Pro-FlexTM Part B
- · Article number: 140255B
- · Application of the substance / the mixture
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Dayton® Superior

4226 Kansas Avenue

Tel.: (866) 329-8724 Kansas City, KS 66106

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident

involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call international number, +1 703 741-5970. Collect calls are accepted.

· Information department: Environmental, Health, and Safety department.

2 Hazard(s) identification

· Classification of the substance or mixture

Acute Tox. 4 H302 Harmful if swallowed.

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

Eve Dam. 1 H318 Causes serious eye damage.

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

H402 Harmful to aquatic life. Aquatic Acute 3

Aquatic Chronic 3 H412 Harmful 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).
- · Hazard pictograms





GHS05

GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

4-nonylphenol, branched

2-piperazin-1-ylethylamine

cyclohex-1,2-ylenediamine

Benzyl alcohol

· Hazard statements

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

Specific treatment (see on this label).

(Contd. on page 2)

Printing date 03/03/2020 Reviewed on 03/03/2020

Trade name: Pro-FlexTM - Part B

(Contd. of page 1)

Store locked up.

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

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3Fire = 1

Reactivity = 2

· HMIS-ratings (scale 0 - 4)



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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
84852-15-3	4-nonylphenol, branched	≥25-<80%
140-31-8	2-piperazin-1-ylethylamine	≥5-<12%
100-51-6	Benzyl alcohol	≤ 6.0%
	cyclohex-1,2-ylenediamine	≥1-<1.4%
124-09-4	hexamethylenediamine	≥1-≤1.1%

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

In the event of persistent symptoms recieve medical treatment.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

(Contd. on page 3)

Printing date 03/03/2020 Reviewed on 03/03/2020

Trade name: Pro-FlexTM - Part B

(Contd. of page 2)

- Seek medical treatment.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment:

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool dry location.
- · Information about storage in one common storage facility: Store away from incompatible materials.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 4)

Printing date 03/03/2020 Reviewed on 03/03/2020

Trade name: Pro-FlexTM - Part B

(Contd. of page 3)

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit

At this time, the other constituents have no known exposure limits.

100-51	100-51-6 Benzyl alcohol		
WEEL	Long-term value: 10 ppm		
	124-09-4 hexamethylenediamine		
TLV	Long-term value: 2.3 mg/m³, 0.5 ppm		
WEEL	Long-term value: 1 ppm		

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Eye protection: Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:
Color:
Amber

Odor:
Ammonia-like
Odor threshold:
Not determined.

PH-value:
Not determined.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.

- Flash point:
- Flammability (solid, gaseous):
- Ignition temperature:

Not determined.

- Decomposition temperature:
Not determined.

(Contd. on page 5)

Printing date 03/03/2020 Reviewed on 03/03/2020

Trade name: Pro-FlexTM - Part B

		Contd. of page
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	2.1 Vol %	
Upper:	10.5 Vol %	
· Vapor pressure at 20 °C (68 °F):	0.1 hPa (0.1 mm Hg)	
· Density at 20 °C (68 °F):	0.97 g/cm³ (8.09465 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	6.0 %	
Water:	0.0 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	
· Volatile Organic Compounds:	Contains less than 10 g/L	

10 Stability and reactivity

- · Reactivity No decomposition if stored and applied as directed.
- · Chemical stability No decomposition if stored and applied as directed
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Keep away from heat and sources of ignition.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values	that are	relevant	for clas	ssification:
------------------	----------	----------	----------	--------------

140-31-8 2-piperazin-1-ylethylamine

Oral LD50 2,140 mg/kg (rat)
Dermal LD50 880 mg/kg (rabbit)

- · Primary irritant effect:
- · on the skin: May cause skin irritation.
- · on the eye: Strong caustic effect.
- · Sensitization: Sensitization possible through skin contact.

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· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· Carcinogenic calegories	
· IARC (International Agency for Research on Cancer)	
105-60-2 1,6-hexanolactam	3
71-43-2 benzene	1
· NTP (National Toxicology Program)	
71-43-2 benzene	K
· OSHA-Ca (Occupational Safety & Health Administration)	
71-43-2 benzene	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- $\cdot \textit{Persistence and degradability} \ \textit{No further relevant information available}.$
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of as normal garbage. Do not allow product to reach sewage system.

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to Federal, State, and Local regulations.

- US

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UN-Number DOT, ADR, IMDG, IATA	UN1760
UN proper shipping name	
DOT	Corrosive liquids, n.o.s. (nonylphenol)
ADR	1760 CORROSIVE LIQUID, N.O.S. (nonylpheno
W.D.G	ENVIRONMENTALLY HAZARDOUS
IMDG	CORROSIVE LIQUID, N.O.S. (nonylphenol), MARI
IATA	POLLUTANT CORROSIVE LIQUID, N.O.S. (nonylphenol)
Transport hazard class(es)	2- 7 (04 7
DOT	
△	
W. W.	
CORROSIVE	
Class	8 Corrosive substances
Label	8
ADR, IMDG	
¥2>	
Class	8 Corrosive substances
Label	8
IATA	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Consider on the CADB	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler): EMS Number:	80 E A S B
EMS Number: Segregation groups	F-A,S-B Alkalis
~-99 minon 9. out	1 IUIVWUU)

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Trade name: Pro-FlexTM - Part B

	(Contd. of page
· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· U.S. Domestic Ground Shipments:	Same as listed for Standard Shipments above.
· U.S. Domestic Ground Non-Bulk (119 gal or less per	
container) Shipments:	Same as listed for Standard Shipments above.
· Emergency Response Guide (ERG) Number:	153
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 1760 CORROSIVE LIQUID, N.O.S. (NONYLPHENOL),
	III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

7664-41-7 ammonia, anhydrous

· Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

84852-15-3 4-nonylphenol, b	ranched	<i>≥</i> 25-<80%
7664-41-7 ammonia, anhydr	rous	<0.1%
71-43-2 benzene		<0.1%
· TSCA (Toxic Substances Con	trol Act):	
84852-15-3 4-nonylphenol, b	ranched	ACTIVE
140-31-8 2-piperazin-1-yle	thylamine	ACTIVE
100-51-6 Benzyl alcohol		ACTIVE
143-23-7 1,6-Hexanediami	ne, N-(6-aminohexyl)-	ACTIVE
694-83-7 cyclohex-1,2-yler	nediamine	ACTIVE
124-09-4 hexamethylenedia	amine	ACTIVE
15520-10-2 2-methylpentane-	1,5-diamine	ACTIVE
111-49-9 perhydroazepine		ACTIVE
105-60-2 1,6-hexanolactan	n	ACTIVE
2432-74-8 6-aminohexanoni	itrile	ACTIVE
7664-41-7 ammonia, anhydr	rous	ACTIVE
71-43-2 benzene		ACTIVE
7732-18-5 water, distilled, c	onductivity or of similar purity	ACTIVE

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(Contd. of page 8) · Hazardous Air Pollutants 71-43-2 benzene · Proposition 65 · Chemicals known to the State of California (Prop. 65) to cause cancer: 71-43-2 benzene · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: 71-43-2 benzene · Chemicals known to cause developmental toxicity: 71-43-2 benzene · Cancerogenity categories · EPA (Environmental Protection Agency) 71-43-2 benzene A, K/L · TLV (Threshold Limit Value established by ACGIH) 105-60-2 1,6-hexanolactam A571-43-2 benzene A1· MAK (German Maximum Workplace Concentration) 71-43-2 benzene · NIOSH-Ca (National Institute for Occupational Safety and Health) 71-43-2 benzene

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





GHS05

GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

4-nonylphenol, branched

2-piperazin-1-ylethylamine

cyclohex-1,2-ylenediamine

Benzyl alcohol

· Hazard statements

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

Specific treatment (see on this label).

Store locked up.

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

- · National regulations:
- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 SDS: Environmental, Health & Safety Department
- · Contact: Environmental, Health & Safety Manager
- · Date of preparation / last revision 03/03/2020 / 86
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1C: Skin corrosion/irritation - Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

US