

# Safety Data Sheet prepared to UN GHS Revision 3

# 1. Identification of the Substance/Mixture and the Company/Undertaking

Product Identifier Product Name:	200-ULTRA-A-FORMULA Flowseal Ultra Base A	Revision Date: Supercedes Date:	10/03/2014 New SDS
Relevant identified uses of the substance or mixture and uses advised against	Base component of 2 components coatings - Industrial use		
Details of the supplier of the safety	data sheet		
Manufacturer:	Flowcrete North America, Inc. 616 Spring Hill Drive, Suite 100 Spring, TX 77386 americas@ flowcrete.com www.flowcreteamericas.com Tel: (936) 539-6700 Fax: (936) 539-6701		
Datasheet Produced by:	Anderson, Paul - americas@ flow	crete.com	
Emergency telephone number:	CHEMTREC +1 703 5273887 (Ou	utside US)	
	Product Name: Relevant identified uses of the substance or mixture and uses advised against Details of the supplier of the safety Manufacturer: Datasheet Produced by:	Product Name:Flowseal Ultra Base ARelevant identified uses of the substance or mixture and uses advised againstBase component of 2 components coatings - Industrial useDetails of the supplier of the safety data sheetBase components coatings - Industrial useManufacturer:Flowcrete North America, Inc. 616 Spring Hill Drive, Suite 100 Spring, TX 77386 americas@ flowcrete.com www.flowcreteamericas.com Tel: (936) 539-6700 Fax: (936) 539-6701Datasheet Produced by:Anderson, Paul - americas@ flowcrete.com Anderson, Paul - americas@ flowcrete.com	Product Name: Flowseal Ultra Base A Supercedes Date:   Relevant identified uses of the substance or mixture and uses advised against Base component of 2 components coatings - Industrial use   Details of the supplier of the safety data sheet Manufacturer: Flowcrete North America, Inc. 616 Spring Hill Drive, Suite 100 Spring, TX 77386 americas@ flowcrete.com www.flowcreteamericas.com Tel: (936) 539-6700 Fax: (936) 539-6701   Datasheet Produced by: Anderson, Paul - americas@ flowcrete.com

### 2. Hazard Identification

- 2.1 Classification of the substance or mixture
- 2.3 Other hazards Not applicable

Results of PBT and vPvB assessment The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

### 3. Composition/Information On Ingredients

#### 3.1 Substances

#### Hazardous Ingredients

<u>CAS-No.</u>	Chemical Name
623-91-6	aliphatic carboxylic ester

CAS-No.

623-91-6

108-83-8

0.1-1.0

108-83-8 2,6-dimethylheptan-4-one

**GHS** Symbols

GHS07-GHS08

GHS02-GHS07

<u>GHS Hazard Statements</u> H302-371 H226-335

M-Factors 0 0

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

#### 4. First-aid Measures

- 4.1 Description of First Aid Measures
  - AFTER INHALATION: Move to fresh air.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water. AFTER EYE CONTACT: Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses. AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes and respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

#### 5. Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

- 5.2 Special hazards arising from the substance or mixture No Information
- 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. ABC powder. None.

### 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /national regulations (see section 13).

6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

#### 7. Handling and Storage

7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment

PROTECTION AND HYGIENE MEASURES: Wash hands before breaks and at the end of workday. When using, do not eat,

drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Keep from any possible contact with water.

STORAGE CONDITIONS: Do not freeze. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

No specific advice for end use available.

### 8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (US)

Name	<u>%</u>	<u>OSHAPEL</u>	<u>Company</u> <u>TLV</u>
aliphatic carboxylic ester	2.5-10		
2,6-dimethylheptan-4-one	0.1-1.0	50.0 PPM	

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: In case of insufficient ventilation wear suitable respiratory equipment EYE PROTECTION: Ensure that eyewash stations and safety showers are close to the workstation location. Safety glasses HAND PROTECTION: Protective glovesLong sleeved clothing. Remove and wash contaminated clothing before re-use. OTHER PROTECTIVE EQUIPMENT: No Information

### 9. Physical and Chemical Properties

9.1	Information on basic physical and chemical properties Appearance:	Colorless
	Physical State	Liquid
	Odor	Slightly Musty
	Odor threshold	Not determined
	рН	Non-aqueous
	Melting point / freezing point (°C)	Not determined
	Boiling point/range (°C)	168 - N.D.
	Flash Point, (°C)	93
	Evaporation rate	Not determined
	Flammability (solid, gas)	Not determined
	Upper/lower flammability or explosive limits	999 - 0
	Vapour Pressure, mmHg	Not determined
	Vapour density	Not determined
	Relative density	Not determined
	Solubility in / Miscibility with water	Insoluble, Reacts With Water

	Partition coefficient n-octanol/water	Not determined
	Auto-ignition temperature (°C)	Not determined
	Decomposition temperature (°C)	Not determined
	Viscosity	200 - 300 cPs
	Explosive properties	Not determined
	Oxidising properties	Not determined
9.2	Other information VOC Content g <i>I</i> : Specific Gravity (g <i>I</i> cm3)	5 1.050

# 10. Stability and Reactivity

#### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

- 10.2 Chemical stability Stable under normal conditions.
- 10.3 Possibility of hazardous reactions Hazardous polymerisation does not occur.
- 10.4 Conditions to avoid Keep from any possible contact with water.
- 10.5 Incompatible materials No Information
- 10.6 Hazardous decomposition products No Information

# 11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:	
Oral LD 50:	No data
Inhalation LC 50:	No data
Irritation:	No information available.
Corrosivity:	No information available.
Sensitization:	No information available.
Repeated dose toxicity:	No information available.
Carcinogenicity:	No information available.
Mutagenicity:	No information available.
Toxicity for reproduction:	No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	Chemical Name	<u>Oral LD 50</u>	<u>Dermal LD50</u>	Vapor LC 50
623-91-6	aliphatic carboxylic ester	1780 mg/kg (rat)		
108-83-8	2,6-dimethylheptan-4-one	3200 mg/kg, oral, rat		1979 ppm /6 hrs, rat, inhalation
Additional Information:				

No Information

# 12. Ecological Information

12.1 Toxicity:

	EC50 48hr (Daphnia): IC50 72hr (Algae): LC50 96hr (fish):	No information No information No information
12.2	Persistence and degradability:	No information
12.3	Bioaccumulative potential:	No information
12.4	Mobility in soil:	No information
12.5	Results of PBT and vPvB assessment	The product does not meet the criteria for $PBT\mathcal{N}PvB$ in accordance with Annex XIII.

#### 12.6 Other adverse effects:

<u>CAS-No.</u>	Chemical Name	<u>E C 50 48hr</u>	<u>IC 50 72hr</u>	<u>LC 50 96hr</u>
623-91-6	aliphatic carboxylic ester	No information	No information	
108-83-8	2,6-dimethylheptan-4-one	No information	No information	

No information

#### 13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14.	Transport Information	
14.1	UN number	
14.2	UN proper shipping name	Not regulated for transport according to ADR /RID, IMDG, and IATA regulations.
	Technical name	
14.3	Transport hazard class(es)	N /A
	Subsidiary shipping hazard	N/A
14.4	Packing group	
14.5	Environmental hazards	
14.6	Special precautions for user	Notapplicable
	EmS-No.:	
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Notapplicable

### 15. Regulatory Information

<sup>15.1</sup> Safety, health and environmental regulations/legislation for the substance or mixture:

### U.S. Federal Regulations: As follows -

#### CERCLA - Sara Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

None Known

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product

#### Toxic Substances Control Act

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA components exist in this product

#### U.S. Clean Air Act:

EPA Coating Category:	Floor Coatings
EPA VOC Content Limit (g/l):	400
ProductVOC Content (g/l)	5
Thinning Recommendations:	None
Application Recommendations:	For professional use only.

\* As per the federal EPA definition for coating categories in 40 CFR 59.401.

\*\* Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.

U.S. State Regulations: As follows -

#### New Jersey Right-to-Know.

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	<u>CAS-No.</u>	
No Chemical Name Found		
bis(1,2,2,6,6-pentamethyl-4-pi	41556-26-7	
Pennsylvania Right-To-Know		

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS-No.</u>	
No Chemical Name Found		
California Proposition 65:		

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

No Proposition 65 Carcinogens exist in this product Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product

### International Regulations: As follows -

\* Canadian DSL:

All chemical ingredients included on inventory

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### 16. Other Information

Text for GHS Hazard Statements shown in Section 3 describing each ingredient

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H335 May cause respiratory irritation.
- H371 May cause damage to organs.

Reasons for revision

This is a new Safety Data Sheet (SDS).

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark ESIS (The European Chemical Substances Information System), provided by the European Commission Joint Research Centre in Ispra, Italy Annex VI of the EU Council Directive 67/548/EEC Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as
	modified by the Protocol of 1978
IBC	International Bulk Container

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.

#### No Information



# Safety Data Sheet prepared to UN GHS Revision 3

# 1. Identification of the Substance/Mixture and the Company/Undertaking

1.1	Product Identifier	200-ULTRA-B-1GAL	Revision Date:	07/28/2014
	Product Name:	Flowseal Ultra - Hardener B	Supercedes Date:	New SDS
1.2	Relevant identified uses of the substance or mixture and uses advised against	Hardener for 2 components coatings - Industrial use		

#### 1.3 Details of the supplier of the safety data sheet

	Manufacturer:	Flowcrete North America, Inc. 616 Spring Hill Drive, Suite 100 Spring, TX 77386 americas@flowcrete.com www.flowcreteamericas.com Tel: (936) 539-6700 Fax: (936) 539-6701
	Datasheet Produced by:	Anderson, Paul - americas@flowcrete.com
1.4	Emergency telephone number:	CHEMTREC +1 703 5273887 (Outside US)

### 2. Hazard Identification

#### 2.1 Classification of the substance or mixture

Acute Toxicity, Inhalation, category 3 STOT, single exposure, category 3, RTI Skin Sensitizer, category 1

#### 2.2 Label elements

#### Symbol(s) of Product



# Signal Word

Danger

#### Named Chemicals on Label

hexamethylene diisocyanate, homopolymer of hdi

#### HAZARD STATEMENTS

Acute Toxicity, Inhalation, category 3 STOT, single exposure, category 3, RTI Skin Sensitizer, category 1 PRECAUTION PHRASES	H331 H335 H317	Toxic if inhaled. May cause respiratory irritation. May cause an allergic skin reaction.
	P261 P304+340	Avoid breathing dust/fume/gas/mist/vapours/spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### 2.3 Other hazards

Not applicable

#### Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

### 3. Composition/Information On Ingredients

#### 3.1 Substances

#### **Hazardous Ingredients**

CAS-No.	Chemical Name		<u>%</u>
28182-81-2	homopolymer of hdi		75-100
822-06-0	hexamethylene diisocyanate		0.1-1.0
CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
28182-81-2	GHS07	H317-332-335	0
822-06-0	GHS06-GHS08	H302-315-317-319-330-334-335	0

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

### 4. First-aid Measures

#### 4.1 Description of First Aid Measures

AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.

**AFTER SKIN CONTACT:** Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**AFTER EYE CONTACT:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

AFTER INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and respiratory system. Heating or fire can release toxic gas.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

### 5. Fire-fighting Measures

#### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture No Information

#### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. ABC powder. Danger! - water reactive substance. Reacts with water to release toxic gas. May be harmful or fatal if inhaled.

#### 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

#### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Keep the container open.

#### 6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

### 7. Handling and Storage

#### 7.1 Precautions for safe handling

**INSTRUCTIONS FOR SAFE HANDLING:** Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Do not breathe vapours or spray mist. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used.

**PROTECTION AND HYGIENE MEASURES:** Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

**CONDITIONS TO AVOID:** Keep from any possible contact with water. **STORAGE CONDITIONS:** Store in original container. Keep container tightly closed in a dry and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.

#### 7.3 Specific end use(s)

No specific advice for end use available.

### 8. Exposure Controls/Personal Protection

#### 8.1 Control parameters

Ingredients with Occupational Exposure Limits (US)

Name	<u>%</u>	<u>OSHAPEL</u>	<u>Company</u> <u>TLV</u>
homopolymer of hdi	75-100		
hexamethylene diisocyanate	0.1-1.0		

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

#### 8.2 Exposure controls

#### **Personal Protection**

**RESPIRATORY PROTECTION:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with a vapor filter.

**EYE PROTECTION:** Ensure that eyewash stations and safety showers are close to the workstation location. Tightly fitting safety goggles.

HAND PROTECTION: Nitrile rubber. Long sleeved clothing. Remove and wash contaminated clothing before re-use. OTHER PROTECTIVE EQUIPMENT: No Information

### 9. Physical and Chemical Properties

9.1	Information on basic physical and chemical properties   Appearance: Clear / Pale Yellow		
	Physical State	Liquid	
	Odor	Slightly Musty	
	Odor threshold	Not determined	
	рН	Non-aqueous	
	Melting point / freezing point (°C)	Not determined	
	Boiling point/range (°C)	382 F - N.D.	
	Flash Point, (°C)	93	
	Evaporation rate	Not determined	
	Flammability (solid, gas)	Not determined	
	Upper/lower flammability or explosive limits	999 - 0	
	Vapour Pressure, mmHg	Approx. 5.2 x 10-9	
	Vapour density	Not determined	
	Relative density	Not determined	
	Solubility in / Miscibility with water	Insoluble, Reacts With Water	
	Partition coefficient: n-octanol/water	Not determined	
	Auto-ignition temperature (°C)	Not determined	
	Decomposition temperature (°C)	Not determined	
	Viscosity	650-750 cPs	
	Explosive properties	Not determined	

	Oxidising properties	Not determined
9.2	Other information	
	VOC Content g/I:	5
	Specific Gravity (g/cm3)	1.130

### 10. Stability and Reactivity

#### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

#### 10.2 Chemical stability

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water. Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4 Conditions to avoid

Keep from any possible contact with water.

#### 10.5 Incompatible materials

Reacts violently in contact with acids, amines, driers, polymerisation accelerators and easily oxidized materials. Contact with water or moist air liberates irritating gas.

#### 10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

### 11. Toxicological Information

#### 11.1 Information on toxicological effects

Acute Toxicity:	
Oral LD50:	>10000 mg/kg, oral (rat)
Inhalation LC50:	137-1150 mg/m3, rats (aerosol), 4 hr.
Irritation:	Severe eye irriatant capable of inducing corneal injury (rabbit). Moderate skin irritant.
Corrosivity:	No information available.
Sensitization:	Pulmonary and dermal sensitizer in animals and humans.
Repeated dose toxicity:	No information available.
Carcinogenicity:	No information available.
Mutagenicity:	No information available.
Toxicity for reproduction:	No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

Date Printed: 28/07/2014

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
28182-81-2	homopolymer of hdi	5000 mg/kg, oral, rat		18500 mg/m3/1H inhalation, rat
822-06-0	hexamethylene diisocyanate	710 mg/kg, oral rat		230 ppm / 4 hrs

#### Additional Information:

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

2.1 Toxicity:				
EC50 48hr (Daphnia):	No information			
IC50 72hr (Algae):	No information			
LC50 96hr (fish):	No information			
2.2 Persistence and degradability:	No information			
2.3 Bioaccumulative potential:	No information	No information		
2.4 Mobility in soil:	No information	No information		
2.5 Results of PBT and vPvB assessment:	The product does not mee	The product does not meet the criteria for PBT/VPvB in accordance with Annex XII		
2.6 Other adverse effects:	No information			
AS-No. Chemical Name	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>	
8182-81-2 homopolymer of hdi	No information	No information		
22-06-0 hexamethylene diisocyanate	e No information	No information		

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

UN number

14.1

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### 14. Transport Information

. .

14.2 UN proper shipping name Not regulated for transport according to ADR/RID, IMDG and IATA regulations Technical name N1/A .

14.3	Transport hazard class(es)	N/A
	Subsidiary shipping hazard	N/A
14.4	Packing group	
14.5	Environmental hazards	
14.6	Special precautions for user	Not applicable
	EmS-No.:	
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable

### 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

### U.S. Federal Regulations: As follows -

#### **CERCLA - Sara Hazard Category**

This product has been reviewed according to the EPA ' Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

### Reactive Hazard

### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.	
hexamethylene diisocyanate	822-06-0	

#### Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA components exist in this product.

#### U.S. Clean Air Act:

EPA Coating Category:	Floor coatings
EPA VOC Content Limit (g/l):	400
Product VOC Content (g/l)	5
Thinning Recommendations:	None
Application Recommendations:	For professional use only.

\* As per the federal EPA definition for coating categories in 40 CFR 59.401.

\*\* Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.

Product: 200-ULTRA-B-1GAL

### U.S. State Regulations: As follows -

#### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

#### Chemical Name

No Chemical Name Found

#### Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

#### Chemical Name

No Chemical Name Found

#### California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

No Proposition 65 Carcinogens exist in this product. Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product.

### International Regulations: As follows -

#### \* Canadian DSL:

All chemical ingredients included on inventory

#### 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### 16. Other Information

#### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

Harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Fatal if inhaled.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.

#### **Reasons for revision**

This is a new Safety Data Sheet (SDS).

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark ESIS (The European Chemical Substances Information System), provided by the European Commission Joint Research Centre in Ispra, Italy

# <u>CAS-No.</u>

CAS-No.

#### Date Printed: 28/07/2014

Annex VI of the EU Council Directive 67/548/EEC Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as
	modified by the Protocol of 1978
IBC	International Bulk Container

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.