

## Crane Fast Grab FRP Wall Panel Adhesive

### SECTION 1: IDENTIFICATION

GHS product identifier	Crane Fast Grab FRP Wall Panel Adhesive
Product type	Liquid
CAS #	Mixture
Manufactured for	Crane Composites, Inc.   23525 W Eames Street   Channahon, IL 60410
Contact	1.800.435.0080
In case of emergency	Chemtrec 1.800.424.9300
Form#	7656
Product Code	R53828
Date of Revision	5/22/2015
Print Date	02/10/2016

Relevant identified uses of the substance or mixture and uses advised against  
No applicable.

### SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	Not classified.  Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 28.3%
<u>GHS label elements</u>	
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
<u>Precautionary statements</u>	
General	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Hazards not otherwise classified	None known.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### HAZARDOUS INGREDIENTS

##### United States

Name	CAS number	%
urea	57-13-6	1 – 5
ethanediol	107-21-1	0.5 – 1
2-diethylaminoethanal	100-37-8	0.1 – 0.5

Canada

Name	CAS number	%
oxydipropyl dibenzoate	27138-31-4	1 – 5
urea	57-13-6	1 – 5
ethanediol	107-21-1	0.5 – 1

<u>Mexico</u>					Classification			
Name	CAS number	UN number	%	IDLH	H	F	R	Special
urea	57-13-6	Not available.	1 – 5	-	2	0	0	-
oxydipropyl dibenzoate	27138-31-4	Not available.	1 – 5	-	2	0	0	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**Occupational exposure limits, if available, are listed in Section 8.**

## SECTION 4: FIRST AID MEASURES

### Description of necessary first aid measures

<b>Eye contact</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Skin Contact</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

#### Potential acute health effects

<b>Eye contact</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<b>Skin Contact</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	No specific data.
<b>Inhalation</b>	No specific data.
<b>Skin Contact</b>	No specific data.
<b>Ingestion</b>	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatment	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

**SECTION 5: FIRE-FIGHTING MEASURES**Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<u>Environmental precautions</u>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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## Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Do not store below the following temperature: 0°C (32°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### CONTROL PARAMETERS

#### United States

#### Occupational exposure limits

Ingredient name	Exposure limits
Urea	<b>AIHA WEEL (United States, 10/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
ethanediol	<b>OSHA PEL 1989 (United States, 3/1989).</b> CEIL: 50 ppm CEIL: 125 mg/m <sup>3</sup>
2-diethylaminoethanal	<b>ACGIH TLV (United States, 4/2014).</b> C: 100 mg/m <sup>3</sup> Form: Aerosol <b>ACGIH TLV (United States, 4/2014). Absorbed through skin.</b> TWA: 2 ppm 8 hours. TWA: 9.6 mg/m <sup>3</sup> 8 hours. <b>OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.</b> TWA: 10 ppm 8 hours. TWA: 50 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 10/2013). Absorbed through skin.</b> TWA: 10 ppm 10 hours. TWA: 50 mg/m <sup>3</sup> 10 hours. <b>OSHA PEL (United States, 2/2013). Absorbed through skin.</b> TWA: 10 ppm 8 hours. TWA: 50 mg/m <sup>3</sup> 8 hours.

## Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List Name	ppm	mg/ m <sup>3</sup>	Other	ppm	mg/ m <sup>3</sup>	Other	ppm	mg/ m <sup>3</sup>	Other	Notations
ethanediol	US ACGIH 4/2014	-	-	-	-	-	-	-	100	-	[a]
	AB 4/2009	-	-	-	-	-	-	-	100	-	[3][b]
	BC 4/2014	-	-	-	-	-	-	-	100	-	[a]
		-	10	-	-	20	-	-	-	-	[c]
urea		-	-	-	-	-	-	50	-	-	[d]
	ON 1/2013	-	-	-	-	-	-	-	100	-	[b]
	QC 1/2016	-	-	-	50	127	-	-	-	-	[e]
	US AIHA 10/2011	-	10	-	-	-	-	-	-	-	

[3]Skin sensitization

**Form:** [a]Aerosol [b]aerosol [c]Particulate [d]Vapour [e]vapour and mist

## Mexico

## Occupational exposure limits

Ingredient name	Exposure limits
No exposure limit value known.	

Consult local authorities for acceptable exposure limits.

## Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants'

## Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the processequipment will be necessary to reduce emissions to acceptable levels.

## Individual protection measures

## Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields

## Skin protection

## Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary

## Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Other skin protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Appearance

Physical state	Liquid. [Paste.]
Color	Brown. [Light]
Odor	Characteristic. [Slight].
Odor threshold	5
pH	Not available.
Melting point	Not available.
Boiling point	100°C (212°F)
Flash point	Closed cup: >93.3°C (>199.9°F) [Setaflash.
Evaporation rate	<1 (butyl acetate = 1)
VOC (less water, less exempt solvents)	2.6 g/l
Relative density	1.39
Solubility	Soluble in the following materials: cold water and hot water.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: TOXICOLOGY INFORMATION**Information on toxicological effectsAcute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
urea	LD50 Dermal	Rabbit	> 21000 mg/kg	-
	LD50 Oral	Rat	8471 mg/kg	-
ethanediol	LC50 Inhalation Vapor	Rat	10.92 mg/l	4 hours
	LD50 Oral	Rat	4700 mg/kg	-
2-diethylaminoethanal	LC50 Inhalation Vapor	Rat	4.6 mg/l	4 hours
	LD50 Oral	Rat	1300 mg/kg	-

Conclusion/Summary Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
urea	Skin – Mild irritant	Human	-	72 hours 22 milligrams Intermittent	-
Skin – Moderate irritant	Skin – Moderate irritant	Human	-	24 hours 20 Percent	-
ethanediol	Eyes – Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Product/ingredient name	Result	Species	Score	Exposure	Observation
Eyes – Mild irritant	Eyes – Mild irritant	Rabbit	-	1 hours 100 milligrams	-
Eyes – Moderate irritant	Eyes – Moderate irritant	Rabbit	-	6 hours 1440 milligrams	-
Skin – Mild irritant	Skin – Mild irritant	Rabbit	-	555 milligrams	-
2-diethylaminoethanol	Eyes – Severe irritant	Rabbit	-	5 milligrams	-
Skin – Mild irritant	Skin – Mild irritant	Rabbit	-	500 milligrams	-

### Conclusion/Summary

#### Skin

Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

#### Eyes

This product may irritate eyes upon contact.

#### Respiratory

Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

### Specific target organ toxicity (single exposure)

Name	Category	Route of Exposure	Target organs
urea	Category 3	Not applicable.	Narcotic effects
ethanediol	Category 2	Oral	kidneys
2-diethylaminoethanal	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation

### Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation

### Potential acute health effects

#### Eye contact

No known significant effects or critical hazards.

#### Inhalation

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

#### Skin Contact

No known significant effects or critical hazards.

#### Ingestion

No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

#### Eye contact

No significant data.

#### Inhalation

No significant data.

#### Skin Contact

No significant data.

#### Ingestion

No significant data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

#### Potential immediate effects

Not available.

#### Potential delayed effects

Not available.

#### Long term exposure

#### Potential immediate effects

Not available.

#### Potential delayed effects

Not available.

**SECTION 12: ECOLOGICAL INFORMATION**

Product/ingredient name	Result	Species	Exposure
urea	Acute EC50 6573.1 mg/l Fresh water	Crustaceans – Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 3910000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 22.5 ppt Fresh water	Fish - Oreochromis mossambicus - Young	96 hours
ethanediol	Chronic NOEC 2 g/L Fresh water	Fish - Heteropneustes fossilis	30 days
	Acute EC50 10940 mg/l	Algae - Selenastrum capricornutum	96 hours
	Acute LC50 13140000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 41000000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
2-diethylaminoethanal	Acute LC50 8050000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 10000 mg/l	Algae - Selenastrum capricornutum	96 hours
	Acute EC50 44 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 83.6 mg/l	Crustaceans	48 hours
	Acute LC50 147 mg/l	Fish - Leuciscus idus	96 hours

**Conclusion/Summary** Not available.

**Persistence and degradability**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
urea	-	-	Readily
ethanediol	-	-	Readily
2-diethylaminoethanal	-	-	Readily

**Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
urea	<-1.73	>10	low
ethanediol	-1.36	10	low
2-diethylaminoethanal	0.21	<6.1	low

**Other adverse effects** No known significant effects or critical hazards.

**SECTION 13: DISPOSAL CONSIDERATION****Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers



**SECTION 14: TRANSPORT INFORMATION**

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-

Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Not available.

**SECTION 15: REGULATORY INFORMATION**

U.S. Federal regulations

**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted  
**Commerce control list precursor:** 2-diethylaminoethanol

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)

Not listed

Clean Air Act Section 602 Class I Substances

Not listed

Clean Air Act Section 602 Class II Substances

Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ

Not applicable

SARA 311/312

Classification

Not applicable

Composition/information on ingredients

No products were found.

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
urea	1 – 5	No.	No.	No.	Yes.	No.
ethanediol	0.5 – 1	No.	No.	No.	Yes.	Yes.
2-diethylaminoethanal	0.1 – 0.5	Yes.	No.	Yes.	Yes.	No.

STATE REGULATIONS

Massachusetts	None of the components are listed.
New York	None of the components are listed.
New Jersey	None of the components are listed.
Pennsylvania	None of the components are listed.
<u>California Prop. 65</u>	Not available

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Not applicable.				

CANADA CANADIAN LISTS

Canadian NPRI	None of the components are listed.
CEPA Toxic substances	None of the components are listed.
Canada inventory	Not determined.

MEXICO

Classification

INTERNATIONAL REGULATIONS

International lists	Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory: Not determined. Korea inventory: Not determined. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.
Europe	None of the components are listed.

Chemical Weapons  
Convention List Schedule  
I Chemicals

Not listed

Chemical Weapons  
Convention List Schedule  
II Chemicals

Not listed

Chemical Weapons  
Convention List Schedule  
III Chemicals

Not listed

**SECTION 16: OTHER INFORMATION**Hazardous Material Information System (U.S.A.)

Health	1
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

[National Fire Protection Association \(U.S.A\)](#)



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[Key to abbreviations:](#)

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

[Notice to reader](#)

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