

**Section 1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product Form	Mixture
Trade Name	DYNAFLEX JF 85 COMP A
Product Code	DYJF85A

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use Industrial. For professional use only.

**1.2.2 Uses Advised Against**

No additional information available

**1.3 Details of the supplier of the safety data sheet****Manufacturer**

NOX-CRETE, INC.  
1444 SOUTH 20<sup>TH</sup> STREET  
OMAHA, NE 68108  
Tel: 402-341-2080  
Fax: 402-341-9752  
E-Mail: [corporate@nox-crete.com](mailto:corporate@nox-crete.com)  
Web Site: [www.nox-crete.com](http://www.nox-crete.com)

**1.4 Emergency telephone number****Emergency Number**

Chemtrec (800) 424-9300  
Chemtrec Outside of U.S. 703-527-3887

**Section 2. Hazards identification****2.1 Classification of the substance or mixture**

Skin Irrit. 2	H315
Skin Sens 1	H317
Eye Irrit. 2B	H320
Acute Tox. 4 (inhalation)	H332
Resp Sens 1	H334
STOT SE 3 Resp Irrit.	H335

Full text of H phrases see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2 Label elements**

Hazard pictograms

**Signal word**

Danger

**Hazard statements**

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H320 - Causes eye irritation  
H332 - Harmful if inhaled



According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

**Precautionary statements**

**Prevention:**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P264 - Wash exposed area's 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

**Response:**

P285 - In case of inadequate ventilation wear respiratory protection  
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
 P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338 -IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

**Storage:**

P337+P313 - If eye irritation persists: Get medical advice/attention  
 P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician  
 P362 - Take off contaminated clothing and wash before reuse.  
 P403+P233 - Store in a well ventilated place. Keep container tightly closed.

**Disposal:**

P405 - Store locked up.  
 P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

None known

Full text of H and P phrases: see section 16

## Section 3. Composition / information on ingredients

**3.1 Substances**

Not applicable

**3.2 Mixture**

Name	Product identifier	%
Methyloxirane polymer	157937-75-2	<47.0
Diphenylmethane 4,4'-diisocyanate	101-68-8	<21.0
Diphenylmethane 2,4'-diisocyanate	5873-54-1	<15.0



According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Propylene carbonate	108-32-7	Trade Secret
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Pursuant to 29CFR 1910.1200(i) the specific chemical identity (and / or) concentration may be withheld as Trade Secret, while all health and safety properties and effects are included in the SDS. Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

## Section 4. First aid measures

### 4.1 Description of first aid measures

#### First-aid measures general

Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.

#### First-aid measures after inhalation

If the individual experiences nausea, dizziness, has difficulty in breathing seek a healthcare professional immediately. In all cases of doubt, or when symptoms persist, seek medical advice. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Center or doctor/physician.

#### First-aid measures after skin contact

If skin irritation persists, seek medical attention. Remove or take off immediately all contaminated clothing. Rinse skin with water or shower. Wash off immediately with soap and plenty of water.

#### First-aid measure after eye contact

When contact lenses are worn, remove if possible. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes while holding eyelids apart. Get medical attention immediately.

#### First-aid measures after ingestion

Rinse mouth. DO NOT induce vomiting. Get medical attention immediately.

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

#### Symptoms/injuries after inhalation

May cause irritation to the respiratory tract. Overexposure to vapors may result in headache, nausea, drowsiness or dizziness.

#### Symptoms/injuries after skin contact

May cause skin irritation or burning sensation

#### Symptoms/injuries after eye contact

May cause eye irritation or injury

#### Symptoms/injuries after ingestion

May cause irritation or burns to the mucous membrane of the mouth, throat, esophagus and stomach

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

No additional information available

## Section 5. Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Dry chemical, foam, carbon dioxide

#### Unsuitable extinguishing media

If water is used it should be in very large quantities. The reaction between hot isocyanate and water may be vigorous.

### 5.2 Special hazards arising from the substance or mixture

#### Reactivity

Thermal decomposition products may cause a health hazard.

### 5.3 Advice for firefighters

#### Firefighting instructions

In a fire or if heated a pressure increase may occur and the container may burst.

#### Protective equipment for firefighters

Firefighters should always wear self-contained breathing apparatus (SCBA) and full protective gear when fighting any chemical fire.

#### Other information

On heating or burning harmful gasses/vapors may be released. This product may cause the floor to become slippery.



According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

## Section 6. Accidental release measures

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

#### General measures

Cleanup should only be performed by trained personnel. People dealing with major spills should wear full protective clothing including respirator protection. Eliminate any ignition sources. Take proper precautions to ensure your own health and safety before attempting spill control or cleanup.

#### 6.11 Protective Equipment

Equip cleanup crew with proper protective equipment.

#### 6.2 Environmental precautions

Prevent entry to sewers and public waters.

Notify authorities if liquid enters sewers or public waters.

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

#### Methods for cleaning up

Contain and absorb large spills onto an inert, non-flammable absorbent carrier (such as earth or sand). Shovel into open top drum for further decontamination, if necessary. Wash the spill area clean with liquid decontamination solution. Neutralize small spills with liquid decontamination solution. Remove and properly dispose of residues.

#### PREPERATION OF DECONTAMINATION SOLUTION -

Prepare a decontamination solution of (0.2-2.0 % liquid detergent and 3.0-8.0 % concentrated ammonia solution) water to make up 100% Follow the precautions on the supplier's Safety Data Sheets when preparing and using the solution.

#### USE OF DECONTAMINATION SOLUTION -

Allow deactivated material to stand for at least 30 minutes before shoveling into drums. Do not tighten drum bungs. Mixing with wet earth is also effective, but slower.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

Wash hands and other exposed areas with soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in work areas to prevent formation of vapor. When not in use keep containers tightly closed. Avoid breathing vapor or mist.

#### Hygiene measures

Wash contaminated clothing before reuse.

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

#### Storage conditions

Store in accordance with local regulations. Store in original container in a cool well ventilated place away from heat, sparks and open flame.

Keep containers tightly closed until ready for use.

#### Incompatible materials

Water, alcohol, amines, bases and acids. Some reactions can be violent.

#### Storage temperature

Store in a cool dry environment away from sources of ignition.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Occupational exposure limits ACGIH TLV (United States)
Diphenylmethane 4,4'-diisocyanate	TWA: 0.005 ppm 8 hours



According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

## 8.2 Exposure controls

**Appropriate engineering controls**

Use with adequate ventilation to keep product vapor concentrations below specified TLV

**Eye and face protection**

Chemical goggles and/or face shields are recommended to prevent potential eye contact, irritation or injury.

**Skin protection**

Wear chemical resistant gloves and appropriate protective clothing and boots as required to prevent skin contact. Wash exposed skin frequently with soap and water. Soiled clothing should be laundered before reuse.

**Respiratory protection**

Avoid breathing the product mist or vapors. The use of a NIOSH approved positive air supplied respirator is recommended whenever the airborne concentrations exceed the specified TLV or there is a high concentration of product in the air such as created by spraying the product. Air purifying (cartridge type) respirators are not approved for protection against diisocyanates.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Pale yellow liquid
<b>Odor</b>	Slight musty odor
<b>Odor Threshold</b>	No data available
<b>PH</b>	No data available
<b>Melting point</b>	No data available
<b>Freezing point</b>	No data available
<b>Boiling point</b>	> 300 C (>572 F)
<b>Flash point</b>	> 110 C > 230 F PMCC
<b>Relative evaporation rate (butyl acetate=1)</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower explosive limits</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density (Specific gravity)</b>	1.15 Kg per Liter 9.55 Lbs per Gallon
<b>Solubility</b>	Reacts with water
<b>Partition coefficient n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>VOC content</b>	No data available

## Section 10. Stability and reactivity

### 10.1 Reactivity

Reacts with water

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

Reaction with water (moisture) produces CO2 gas.

### 10.4 Conditions to avoid

Extreme high temperatures.

### 10.5 Incompatible materials

Water, alcohol, amines, bases and acids. Some reactions can be violent.

### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxides, and traces of hydrogen cyanide.

## Section 11. Toxicology information



According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

## 11.1 Information on toxicological effects

<b>Acute toxicity</b>		No data available
<b>Irritation/Corrosion</b>	<b>Skin</b>	May cause skin irritation or sensitization.
	<b>Eyes</b>	May cause serious eye irritation and damage.
<b>Respiration or skin sensitization</b>		May cause respiratory irritation or sensitization.
<b>Germ cell mutagenicity</b>		No data available
<b>Carcinogenicity</b>	<b>IARC</b>	

Diphenylmethane 4,4'-diisocyanate	3
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3 - Inadequate in humans and inadequate or limited in animals.

<b>Reproductive toxicity</b>	No data available.
<b>Specific target organ toxicity</b>	
<b>Single exposure</b>	No data available
<b>Repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available

## Section 12. Ecological information

<b>12.1 Ecotoxicity</b>	Not established
<b>12.2 Persistence and degradability</b>	Not established
<b>12.3 Bioaccumulative potential</b>	Not established
<b>12.4 Mobility in soil</b>	No additional information available
<b>12.5 Other adverse effects</b>	Avoid release to the environment

## SECTION 13. Disposal Considerations

<b>13.1 Waste treatment methods</b>	The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all applicable local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
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## SECTION 14. Transport information

<b>In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA</b>	
<b>14.1 UN number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	
<b>14.3 Transport hazard class(es)</b>	
<b>14.4 Packing group</b>	
<b>14.5 Environmental hazards</b>	No additional information available
<b>14.6 Special precautions for user</b>	
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No additional information available
<b>14.8 Transport in bulk according to CFR 49 173.15</b>	Not applicable

## SECTION 15. Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**15.1.2 USA Regulations**



According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), *Hazardous Products Regulation* (HPR) (WHMIS 2015)

## Section 313

Contains the following ingredients at or above the reporting level requirements of Section 313. This information must be included in all SDS's copied or distributed for this material.

CHEMICAL	CAS #	MAX WEIGHT %
Methyloxirane polymer	157937-75-2	47.0
Diphenylmethane 4,4'-diisocyanate	101-68-8	21.0
Diphenylmethane 2,4'-diisocyanate	5873-54-1	17.0
<b>TSCA</b>	All ingredients are listed or exempted	

## PROPOSITION 65



**WARNING:** This product can expose you to chemicals including Propylene Oxide, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)."

### 15.1.3 Canada Regulations

This SDS has been prepared according to the hazard criteria of the *Hazardous Products Regulation* (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR

## DSL

### 15.2 Chemical safety assessment

All ingredients are listed or exempted  
A Chemical Safety Assessment has not been carried out.

## Section 16. Other information

Date of issue	7-10-2023
Version	3.0
Number	226
Date of previous issue	7-16-2020
Preparer	Nox-Crete, Inc.

### Reference Documentation

The information and recommendations contained herein are, to the best of Nox-Crete, Inc.'s knowledge and belief, accurate and reliable as of the date issued. You can contact Nox-Crete, Inc. to ensure that this document is the most current available from Nox-Crete, Inc. The information and recommendations are offered for the buyer's/user's consideration and examination. It is the buyer's/user's responsibility to satisfy themselves that the product is suitable for the intended use. Appropriate warnings and safe-handling procedures should be provided to all handlers and users. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Since the information provided herein may have been obtained in part from independent laboratories or other sources not under our direct supervision, no representation is made that the information is accurate, reliable, complete or representative and buyer/user may rely thereon only at their risk. We have made no effort to censor or to conceal deleterious aspects of this product. Further, since we cannot anticipate or control the many different conditions under which this information or our products may be used, we make no guarantee that the health and/or safety precautions we have suggested will be adequate for all individuals and /or situations involving its handling or use. Likewise, we make no guarantee or warranty of any kind that the use or disposal of this product is in compliance with all federal, state or local laws. It is the obligation of each buyer/user of the product mentioned herein to determine and comply with the requirements of all applicable statutes. If buyer/user repackages this product, it is the buyer's/user's responsibility to ensure proper health, safety and other necessary information is included with and/or on the container. Nox-Crete, Inc. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with this product. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part is not permitted.



## Full text of H and P phrases

H315 - Causes skin irritation	Skin Irrit. 2
H317 - May cause an allergic skin reaction	Skin Sens. 1
H320 - Causes eye irritation	Eye Irrit. 2B
H332 - Harmful if inhaled	Acute Tox. 4 (inhalation)
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled	Resp. Sens. 1
H335 - May cause respiratory irritation	STOT SE 3 Resp Irrit.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 - Wash exposed area's 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  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician  
P362 - Take off contaminated clothing and wash before reuse  
P403+P233 - Store in a well ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.