

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 06.11.2019

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## SECTION 1: Identification

Product identifier **ISO-2**  
Product name: POUR FLEX<sup>2</sup>, RED "A"

### Recommended use of the product and restriction on use

Relevant identified uses: Epoxy Compound Component

Uses advised against: Any uses other than mentioned above

Reasons why uses advised against: Not determined or not applicable.

### Manufacturer or supplier details

Manufacturer:  
United States  
Dynamis Epoxy Systems  
415 E. Venice Avenue  
Venice, FL 34285  
941.488.3999

### Emergency telephone number:

United States  
ChemTel  
(888)-255-3924 (24 hours)

## SECTION 2: Hazard(s) identification

### GHS classification:

- Skin sensitization, category 1
- Germ cell mutagenicity, category 2
- Carcinogenicity, category 1A
- Specific target organ toxicity - repeated exposure, category 1
- Acute toxicity (oral), category 4
- Eye irritation, category 2A
- Skin irritation, category 2

### Label elements

#### Hazard pictograms:



Signal word: Danger

### Hazard statements:

- H317 May cause an allergic skin reaction
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H302 Harmful if swallowed
- H319 Causes serious eye irritation
- H315 Causes skin irritation

### Precautionary statements:

- P272 Contaminated work clothing must not be allowed out of the workplace
- P280 Wear protective gloves/protective clothing/eye protection/face protection



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P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood  
P260 Do not breathe dust/fume/gas/mist/vapors/spray  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product  
P302+P352 IF ON SKIN: Wash with plenty of water  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention  
P321 Specific treatment (see Sections 4 - 8 of this SDS and any additional information on the product label).  
P308+P313 IF exposed or concerned: Get medical advice/attention  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P330 Rinse mouth  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 If eye irritation persists: Get medical advice/attention  
P362 Take off contaminated clothing and wash it before reuse  
P405 Store locked up  
P501 Dispose of contents/container in accordance with all local, regional, state and federal regulations.

Hazards not otherwise classified: None

### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 25085-99-8	2,2'-[[1-Methylethylidene]bis(4,1-phenyleneoxymethylene)]bisoxirane homopolymer	40-60
CAS number: 2210-79-9	2,3-epoxypropyl o-tolyl ether	<3
CAS number: 28064-14-4	2-(chloromethyl)oxirane; Formaldehyde; Phenol	<3
CAS number: 68609-97-2	Oxirane, 2-((C12-14-alkyloxy)methyl) derivs.	<15
CAS number: 74398-71-3	Castor oil glycidyl ether	5-15
CAS number: 1317-65-3	Limestone	20-40
CAS number: 14808-60-7	Silica, crystalline quartz	<1
CAS number: Proprietary	Proprietary Ingredient	1-5
CAS number: 1309-37-1	Diiron trioxide	1-5

#### Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA hazard Communication Standard (29 CFR §1910.1200).

### SECTION 4: First aid measures

Description of first aid measures



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### General notes:

Not determined or not applicable.

### After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

### After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

### After eye contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

### After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

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

#### Acute symptoms and effects:

Causes serious eye irritation. Symptoms include redness, tearing, itching, burning and inflammation. Causes skin irritation and may cause an allergic skin reaction. Symptoms include redness, rash, inflammation, burning and itching.

#### Delayed symptoms and effects:

Prolonged and/or repeated exposure to crystalline silica of respirable size may cause lung damage, including silicosis. Silicosis is a fibrosis (scarring) of the lungs. Silicosis is irreversible and may be fatal. Silicosis increases the risk of contracting pulmonary tuberculosis. Repeated inhalation of respirable crystalline silica may cause cancer of the lungs and kidney. This product contains naphthalene, a suspected human carcinogen. This product contains 2,3-epoxypropyl o-tolyl ether, which is classified as a category 2 germ cell mutagen. Suspected of causing genetic defects.

### Immediate medical attention and special treatment

#### Specific treatment:

No additional information.

#### Notes for the doctor:

Not determined or not applicable.

## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media:

Water spray; Alcohol-resistant foam, Dry chemical; Carbon dioxide.

#### Unsuitable extinguishing media:

Water jet.

### Specific hazards during fire-fighting:

Containers may explode when heated. Thermal decomposition may produce irritating and toxic fumes, including: carbon oxides, iron oxides, calcium oxides, magnesium oxides, silicon oxides, aldehydes and phenolics.

### Special protective equipment for firefighters:



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As in any fire, fire-fighters should wear appropriate protective gear and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Special precautions:

Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

## SECTION 6: Accidental release measures

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

Ventilate area. Wear recommended personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Avoid breathing dust, mist, vapor, fume and spray. Extinguish any sources of ignition. Do not walk through spilled material. Wash thoroughly after handling.

### Environmental precautions:

Prevent entry into drains, sewer and waterways. Do not discharge into the environment.

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

Contain and collect spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite, diatomaceous earth). Place recovered product in appropriate container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

### Reference to other sections:

Section 8: Personal Protective Equipment

Section 13: Disposal

## SECTION 7: Handling and storage

### Precautions for safe handling:

Wear recommended personal protective equipment (see section 8). Use only with adequate ventilation. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Avoid breathing dust/mist/vapor/spray. Do not eat, drink or smoke while handling this product. Wash hands, forearms and face after handling. Keep away from open flame, hot surfaces, ignition sources and incompatible materials (see Section 10).

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from freezing and physical damage. Store away from ignition sources and incompatible materials (see Section 10 for incompatibles).

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
OSHA	Limestone	1317-65-3	TWA: 15 mg/m <sup>3</sup> (Total dust)
	Limestone	1317-65-3	PEL: 5 mg/m <sup>3</sup> (Respirable fraction)
	Diron trioxide	1309-37-1	TWA: 10 mg/m <sup>3</sup> (Fume)
	Diron trioxide	1309-37-1	TWA: 15 mg/m <sup>3</sup> ((Total dust) (50 mppcf*))
	Diron trioxide	1309-37-1	PEL: 15 mg/m <sup>3</sup> ((TWA) (50 mppcf*))
	Silica, crystalline quartz	14808-60-7	8-Hour TWA-PEL: 0.05 mg/m <sup>3</sup> ((Respirable Crystalline Silica))
	Silica, crystalline quartz	14808-60-7	Level Limit Value: 0.025 mg/m <sup>3</sup> (Immediate Action Level - (Respirable Crystalline Silica))
NIOSH	Limestone	1317-65-3	REL: 10 mg/m <sup>3</sup> (Total dust)



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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Limestone	1317-65-3	REL: 5 mg/m <sup>3</sup> (Respirable dust)
	Diiron trioxide	1309-37-1	REL: 5 mg/m <sup>3</sup> (10 hr)
	Silica, crystalline quartz	14808-60-7	TWA: 0.05 mg/m <sup>3</sup> (10 hr. - (Respirable fraction))
	Silica, crystalline quartz	14808-60-7	IDLH: 50 mg/m <sup>3</sup> (Respirable fraction)
ACGIH	Limestone	1317-65-3	TWA: 10 mg/m <sup>3</sup> (Inhalable particulate matter containing no asbestos and < 1% crystalline silica)
	Diiron trioxide	1309-37-1	TWA: 10 mg/m <sup>3</sup> ((TLV) (Inhalable particles))
	Silica, crystalline quartz	14808-60-7	8-Hour TWA: 0.025 mg/m <sup>3</sup> (Respirable particulate matter)

### Biological limit values:

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Not determined or not applicable.

### Appropriate engineering controls:

Use local exhaust or mechanical ventilation to maintain airborne concentrations below any occupational exposure limits.

Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection equipment

#### Eye and face protection:

Wear chemical splash goggles or safety glasses with full-face shield. Use eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Other skin protection: Appropriate footwear and any additional skin protection measures 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:

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. Wear a properly fitted, air-purifying or air-fed respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### General hygienic measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## SECTION 9: Physical and chemical properties



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### Information on basic physical and chemical properties

Appearance	Red Liquid
Odor	Mild epoxy
Odor threshold	Not applicable
pH	7.3
Melting point/freezing point	Not applicable
Initial boiling point/range	Not applicable
Flash point (closed cup)	> 100F
Evaporation rate	Not applicable
Flammability (solid, gas)	Non-flammable solid
Upper flammability/explosive limit	Not applicable
Lower flammability/explosive limit	Not applicable
Vapor pressure	1mm Hg
Vapor density	Not applicable
Density	1.24g/cm <sup>3</sup>
Relative density	1.18/ water =1.0
Solubilities	Water, negligible
Partition coefficient (n-octanol/water)	Not applicable
Auto/Self-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Dynamic viscosity	1750 cps
Kinematic viscosity	Not applicable
Explosive properties	None under normal use and storage
Oxidizing properties	None under normal use and storage

### Other information

#### SECTION 10: Stability and reactivity

##### Reactivity:

Product will not react by itself. A mass of more than one pound of product mixed with an aliphatic amine will cause irreversible polymerization with significant heat buildup. Strong acids, bases, amines and mercaptans can cause polymerization.

##### Chemical stability:

Stable under recommended storage and handling conditions.

##### Possibility of hazardous reactions:

Strong acids, bases, amines and mercaptans can cause polymerization. External heating or self-heating could result in rapid temperature increase and pressure build up. If such a condition were to occur in a drum, the drum could expand and rupture violently.

##### Conditions to avoid:

Extreme heat; Open Flame; Ignition Sources; Dust generation; Incompatible materials

##### Incompatible materials:

Strong Oxidizing Agents; Strong Acids; Strong Bases; Amines; Mercaptans

##### Hazardous decomposition products:

Thermal decomposition may produce irritating and toxic fumes, including: carbon oxides, iron oxides, calcium oxides, magnesium oxides, silicon oxides, aldehydes and phenolics.

#### SECTION 11: Toxicological information



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### Acute toxicity

**Assessment:**

Harmful if swallowed.

**Product data:** No data available.

**Substance data:**

Name	Route	Result
Oxirane, 2-((C12-14-alkyloxy)methyl) derivs.	oral	LC50 Rat: 17,000 mg/kg
Diiron trioxide	oral	LD50 Rat: > 5000 mg/kg
2,3-epoxypropyl o-tolyl ether	oral	LD50 Rat: 5000 mg/kg
	inhalation	LC50 Rat: 6090 mg/m <sup>3</sup> (4 Hour)

### Skin corrosion/irritation

**Assessment:**

Causes skin irritation.

**Product data:**

No data available.

**Substance data:**

Name	Result
2,2'-[[1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane homopolymer	Causes skin irritation.
Oxirane, 2-((C12-14-alkyloxy)methyl) derivs.	Causes skin irritation.
2,3-epoxypropyl o-tolyl ether	Causes skin irritation.
2-(chloromethyl)oxirane; Formaldehyde; Phenol	Causes skin irritation.
Castor oil glycidyl ether	Causes skin irritation.

### Serious eye damage/irritation

**Assessment:**

Causes serious eye irritation.

**Product data:**

No data available.

**Substance data:**

Name	Result
2,2'-[[1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane homopolymer	Causes serious eye irritation.
2-(chloromethyl)oxirane; Formaldehyde; Phenol	Causes serious eye irritation.

### Respiratory or skin sensitization

**Assessment:**

May cause an allergic skin reaction.

**Product data:**

No data available.

**Substance data:**

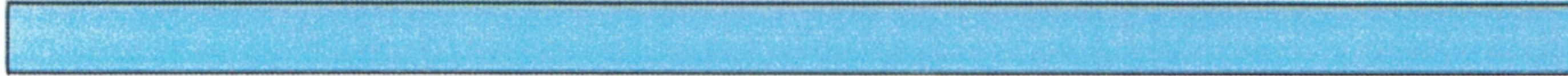


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Name	Result
2,2'-[[1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane homopolymer	May cause an allergic skin reaction.
Oxirane, 2-((C12-14-alkyloxy)methyl) derivs.	May cause an allergic skin reaction.
2,3-epoxypropyl o-tolyl ether	May cause an allergic skin reaction.
2-(chloromethyl)oxirane; Formaldehyde; Phenol	May cause an allergic skin reaction.
Castor oil glycidyl ether	May cause an allergic skin reaction.

### Carcinogenicity

**Assessment:**

May cause cancer.

**Product data:** No data available.

**Substance data:**

Name	Species	Result
Silica, crystalline quartz	Not applicable	May cause cancer via inhalation.

**International Agency for Research on Cancer (IARC):**

Name	Classification
Diiron trioxide	Group 3
Silica, crystalline quartz	Group 1

**National Toxicology Program (NTP):**

Name	Classification
Silica, crystalline quartz	Known to be human carcinogens

### Germ cell mutagenicity

**Assessment:**

Suspected of causing genetic defects.

**Product data:**

No data available.

**Substance data:**

Name	Result
2,3-epoxypropyl o-tolyl ether	Suspected of causing genetic defects.

### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Specific target organ toxicity (repeated exposure)

**Assessment:**



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Causes damage to organs through prolonged or repeated exposure.

**Product data:**

No data available.

**Substance data:**

Name	Result
Silica, crystalline quartz	Causes damage to organs (Lungs) through prolonged or repeated exposure.

**Aspiration toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:**

Inhalation; Ingestion; Skin Contact; Eye Contact

**Symptoms related to the physical, chemical and toxicological characteristics:**

Refer to Section 4 of this SDS for adverse symptoms and effects, acute and delayed.

**Other information:**

No data available.

### SECTION 12: Ecological information

**Acute (short-term) toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

Name	Result
2,3-epoxypropyl o-tolyl ether	LC50 Rainbow trout: 2.8 mg/L (4 days)

**Chronic (long-term) toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**Persistence and degradability**

**Product data:** No data available.

**Substance data:** No data available.

**Bioaccumulative potential**

**Product data:** No data available.

**Substance data:** No data available.

**Mobility in soil**

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

### SECTION 13: Disposal considerations

**Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

**Contaminated packages:**

This material and its container must be disposed of in a safe way. Empty containers or liners may retain



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some product residue.

## SECTION 14: Transport information

### United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

## SECTION 15: Regulatory information

### United States regulations

Inventory listing (TSCA): All ingredients listed or exempt.

Significant New Use Rule (TSCA Section 5): All ingredients listed or exempt.

Export notification under TSCA Section 12(b): All ingredients listed or exempt.

SARA Section 302 extremely hazardous substances: No product ingredients listed.

SARA Section 313 toxic chemicals: No product ingredients listed.

CERCLA: No product ingredients listed.

RCRA: No product ingredients listed.

Section 112(r) of the Clean Air Act (CAA): Not determined.

### Massachusetts Right to Know:

1317-65-3	Limestone	Listed
1309-37-1	Diiron trioxide	Listed
14808-60-7	Silica, crystalline quartz	Listed

### New Jersey Right to Know:

1317-65-3	Limestone	Listed
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1309-37-1	Diiron trioxide	Listed
14808-60-7	Silica, crystalline quartz	Listed

### New York Right to Know:

1309-37-1	Diiron trioxide	Listed
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### Pennsylvania Right to Know:

1317-65-3	Limestone	Listed
1309-37-1	Diiron trioxide	Listed
14808-60-7	Silica, crystalline quartz	Listed

### California Proposition 65:

⚠️ **WARNING:** This product can expose you to Silica, crystalline (airborne particles of respirable size), 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)

⚠️ **WARNING:** This product can expose you to Epichlorohydrin, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16: Other information

Abbreviations and Acronyms: None

### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-0-0

HMIS: 2-0-0

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End of Safety Data Sheet