

Drew Paints, inc.  
1525 NW 23rd Avenue  
Portland, OR 97210  
503-227-6497

## SAFETY DATA SHEET

### 1. Identification

Product identifier: Med-Slow Urethane Reducer/CYCLOHEXANONE

SDS number: T8060

#### Recommended use and restriction on use

Recommended use: Not available.

Restrictions on use: Not known.

Emergency telephone number: For emergency assistance Involving chemicals

Call CHEMTREC day or night at: 1-800-424-9300

### 2. Hazard(s) identification

#### Hazard classification

##### Health hazards

Acute toxicity (Dermal) Category 3

Skin corrosion/irritation Category 2

#### Label elements

##### Hazard symbol



Signal word

Danger

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|  |  |
|--|--|
| <b>Hazard statement</b>  | Flammable liquid and vapor.<br>Aspiration hazard if swallowed - can enter lungs and cause damage.<br>Harmful if swallowed.<br>Harmful if inhaled.<br>Harmful in contact with skin.<br>Causes skin and eye irritation.<br>May cause respiratory irritation.   |
| <b>Precautionary statement</b>                                 |  |
| <b>Prevention</b>  | Wear protective gloves/protective clothing/eye protection/face protection.<br>Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing.<br>Avoid breathing vapors. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment.<br>Take precautionary measures against static discharge. |
| <b>Response</b>  | IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see this label). Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.   |
| <b>Storage</b>   | Store in a closed container. Keep container tightly closed. Store in a well-ventilated place. Store in a dry place. Store locked up.   |
| <b>Disposal</b>  | Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.   |
| <b>Other hazards which do not result in GHS classification</b> | None.  |

### 3. Composition/information on ingredients

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## Substances

| Chemical identity | Common name and synonyms | CAS number | Content in percent (%)* |
|-------------------|--------------------------|------------|-------------------------|
| Cyclohexanone     |                          | 108-94-1   | 100%                    |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments:** The components are not hazardous or are below required disclosure limits.

## 4. First-aid measures

**General information:** CAUTION! First aid personnel must be aware of own risk during rescue!

**Ingestion:** Do NOT induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately.

**Inhalation:** Move to fresh air. Get medical attention immediately.

**Skin contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Eye contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

## Indication of immediate medical attention and special treatment needed

**Treatment:** No data available.

## 5. Fire-fighting measures

**General fire hazards:** No data available.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Extinguish with foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media:** No data available.

**Specific hazards arising from the chemical:** Vapors may travel considerable distance to a source of ignition and flash back.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

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**Special protective equipment for fire-fighters:** No data available.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep unauthorized personnel away.

**Methods and material for containment and cleaning up:** All equipment used when handling the product must be grounded. Eliminate sources of ignition. Absorb spillage with non-combustible, absorbent material. Dike for later disposal.

**7. Handling and storage**

**Precautions for safe handling:** Use personal protective equipment as required. Eliminate all sources of ignition. Container must be kept tightly closed. Ground/bond container and receiving equipment. Use only with adequate ventilation.

**Conditions for safe storage, including any incompatibilities:** No data available.

**8. Exposure controls/personal protection**

**Control parameters**

**Occupational exposure limits**

| Chemical identity | Type   | Exposure Limit values | Source  |
|-------------------|--------|-----------------------|---|
| Cyclohexanone     | TWA    | 20 ppm                | US. ACGIH Threshold Limit Values (03 2013)                                  |
|                   | STEL   | 50 ppm                | US. ACGIH Threshold Limit Values (03 2013)                                  |
|                   | REL    | 25 ppm      100 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010)                          |
|                   | PEL    | 50 ppm      200 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
|                   | TWA    | 25 ppm      100 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                              |
|                   | TWA    | 25 ppm      100 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)      |
|                   | ST ESL | 480 µg/m3             | US. Texas. Effects Screening Levels (Texas Commission on Environmental      |

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|  |         |                                 |  |
|--|---------|---------------------------------|--|
|  |         |                                 | Quality) (02 2013)   |
|  | AN ESL  | 80 µg/m <sup>3</sup>            | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)  |
|  | AN ESL  | 20 ppb                          | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)  |
|  | ST ESL  | 120 ppb                         | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)  |
|  | TWA PEL | 25 ppm<br>100 mg/m <sup>3</sup> | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012) |

**Biological limit values**

| Chemical identity  | Exposure Limit values | Source              |
|--|-----------------------|---------------------|
| Cyclohexanone (1,2-Cyclohexanediol, with hydrolysis: Sampling time: End of shift at end of work week.) | 80 mg/l (Urine)       | ACGIH BEL (03 2013) |
| Cyclohexanone (Cyclohexanol, with hydrolysis: Sampling time: End of shift.)                            | 8 mg/l (Urine)        | ACGIH BEL (03 2013) |

**Appropriate engineering controls** No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** Use personal protective equipment as required. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Practice good housekeeping.

**Eye/face protection:** Wear face shield if there is risk of splashes. Wear approved safety goggles.

**Skin protection**

**Hand protection:** Chemical resistant gloves

**Other:** No data available.

Respiratory protection: Wear suitable respiratory protection.

Hygiene measures: No data available.

### 9. Physical and chemical properties

|   |                    |
|---|--------------------|
| Physical state:                                       | Liquid             |
| Form:   | No data available. |
| Color:  | No data available. |
| Odor:   | No data available. |
| Odor threshold:                                       | No data available. |
| pH:   | 6.6                |
| Melting point/freezing point:                         | -26 °C             |
| Initial boiling point and boiling range:              | 153 - 156 °C       |
| Flash Point:  | 43 °C              |
| Evaporation rate:                                     | No data available. |
| Flammability (solid, gas):                            | No data available. |
| Upper/lower limit on flammability or explosive limits |                    |
| Flammability limit - upper (%):                       | No data available. |
| Flammability limit - lower (%):                       | No data available. |
| Explosive limit - upper (%):                          | No data available. |
| Explosive limit - lower (%):                          | No data available. |
| Vapor pressure:                                       | No data available. |
| Vapor density:  | No data available. |
| Relative density:                                     | No data available. |
| Solubility(ies)                                       |                    |
| Solubility in water:                                  | No data available. |
| Solubility (other):                                   | No data available. |
| Partition coefficient (n-octanol/water):              | No data available. |
| Auto-ignition temperature:                            | No data available. |
| Decomposition temperature:                            | No data available. |
| Viscosity:  | No data available. |

**10. Stability and reactivity**

|  |                    |
|--|--------------------|
| <b>Reactivity:</b>                         | No data available. |
| <b>Chemical stability:</b>                 | No data available. |
| <b>Possibility of hazardous reactions:</b> | No data available. |
| <b>Conditions to avoid:</b>                | No data available. |
| <b>Incompatible materials:</b>             | No data available. |
| <b>Hazardous decomposition products:</b>   | No data available. |

**11. Toxicological information****Symptoms related to the physical, chemical and toxicological characteristics**

|                      |                    |
|----------------------|--------------------|
| <b>Ingestion:</b>    | No data available. |
| <b>Inhalation:</b>   | No data available. |
| <b>Skin contact:</b> | No data available. |
| <b>Eye contact:</b>  | No data available. |

**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)****Oral**

|                                |  |
|--------------------------------|--|
| <b>Product:</b>                | No data available.   |
| <b>Specified substance(s):</b> |  |
| Cyclohexanone                  | ALD 50 (Rat): 1,890 mg/kg (, No ) 2 (reliable with restrictions) |

**Dermal**

|                 |                       |
|-----------------|-----------------------|
| <b>Product:</b> | ATEmix ( ): 794 mg/kg |
|-----------------|-----------------------|

**Inhalation**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

**Specified substance(s):**

|               |   |
|---------------|---|
| Cyclohexanone | LC 50 (Rat, ) : > 6.2 mg/l (, No ) 2 (reliable with restrictions) |
|---------------|---|

**Repeated dose toxicity**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

**Skin corrosion/irritation**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

**Serious eye damage/eye irritation**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

**Respiratory or skin sensitization**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

**Carcinogenicity**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|



**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**Germ cell mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific target organ toxicity - single exposure**

**Product:** No data available.

**Specific target organ toxicity - repeated exposure**

**Product:** No data available.

**Aspiration hazard**

**Product:** No data available.

**Other effects:** No data available.

## 12. Ecological information

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Specified substance(s):**

Cyclohexanone LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 481 - 578 mg/l  
 Mortality LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 630 mg/l  
 Mortality LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 696 - 770 mg/l  
 Mortality LC 50 (Carp (*Leuciscus idus melanotus*), 48 h): 536 mg/l  
 Mortality LC 50 (Carp (*Leuciscus idus melanotus*), 48 h): 752 mg/l Mortality

**Aquatic invertebrates**

**Product:** No data available.

**Specified substance(s):**

Cyclohexanone LC 50 (Water flea (*Daphnia magna*), 24 h): 800 mg/l Mortality

**Chronic hazards to the aquatic environment:**

**Fish**



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**Product:** No data available.  
**Aquatic invertebrates**  
**Product:** No data available.  
**Toxicity to Aquatic Plants**  
**Product:** No data available.  
**Persistence and degradability**  
**Biodegradation**  
**Product:** No data available.  
**BOD/COD ratio**  
**Product:** No data available.  
**Bioaccumulative potential**  
**Bioconcentration factor (BCF)**  
**Product:** No data available.  
**Partition coefficient n-octanol / water (log Kow)**  
**Product:** No data available.  
**Specified substance(s):**  
Cyclohexanone Log Kow: 0.81  
**Mobility in soil:** No data available.  
**Known or predicted distribution to environmental compartments**  
Cyclohexanone No data available.

**13. Disposal considerations**

**Disposal instructions:** No data available.  
**Contaminated packaging:** No data available.

**14. Transport information**

**DOT**  
UN number: UN 1915  
UN proper shipping name: Cyclohexanone  
Transport hazard class(es)  
Class: 3  
Label(s): 3  
Packing group: III  
Marine Pollutant: Not regulated.

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Special precautions for user: —

**IMDG**

UN number: UN 1915  
UN proper shipping name: CYCLOHEXANONE  
Transport hazard class(es)  
Class: 3  
Label(s): 3  
EmS No.: F-E, S-D  
Packing group: III  
Marine Pollutant: Not regulated.  
Special precautions for user: —

**IATA**

UN number: UN 1915  
Proper Shipping Name: Cyclohexanone  
Transport hazard class(es):  
Class: 3  
Label(s): 3  
Packing group: III  
Environmental hazards: Not regulated.  
Special precautions for user: —  
Other information  
Passenger and cargo aircraft: Allowed.  
Cargo aircraft only: Allowed.

## 15. Regulatory information

### US federal regulations US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

### CERCLA Hazardous Substance List (40 CFR 302.4):

Cyclohexanone Reportable quantity: 5000 lbs.

### Superfund amendments and reauthorization act of 1986 (SARA)

#### Hazard categories

Not listed.

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## SARA 302 Extremely hazardous substance

None present or none present in regulated quantities.

## SARA 304 Emergency release notification

| Chemical identity | RQ        |
|-------------------|-----------|
| Cyclohexanone     | 5000 lbs. |

## SARA 311/312 Hazardous chemical

| Chemical identity | Threshold Planning Quantity |
|-------------------|-----------------------------|
| Cyclohexanone     | 500 lbs                     |

## SARA 313 (TRI reporting)

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

## US state regulations

### US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

### US. New Jersey Worker and Community Right-to-Know Act

Cyclohexanone Listed

### US. Massachusetts RTK - Substance List

Cyclohexanone Listed

### US. Pennsylvania RTK - Hazardous Substances

Cyclohexanone Listed

### US. Rhode Island RTK

Cyclohexanone Listed

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|  |  |
|--|--|
| <b>Inventory Status:</b> Australia AICS: | Not in compliance with the inventory.  |
| Canada DSL Inventory List:               | Not in compliance with the inventory.  |
| EU EINECS List:                          | On or in compliance with the inventory |
| EU ELINCS List:                          | Not in compliance with the inventory.  |
| Japan (ENCS) List:                       | Not in compliance with the inventory.  |
| EU No Longer Polymers List:              | Not in compliance with the inventory.  |
| China Inv. Existing Chemical Substances: | Not in compliance with the inventory.  |
| Korea Existing Chemicals Inv. (KECI):    | Not in compliance with the inventory.  |
| Canada NDSL Inventory:                   | Not in compliance with the inventory.  |
| Philippines PICCS:                       | Not in compliance with the inventory.  |
| US TSCA Inventory:                       | On or in compliance with the inventory |
| New Zealand Inventory of Chemicals:      | Not in compliance with the inventory.  |
| Japan ISHL Listing:                      | Not in compliance with the inventory.  |
| Japan Pharmacopoeia Listing:             | Not in compliance with the inventory.  |

|  |
|--|
| <b>16. Other information, including date of preparation or last revision</b> |
|--|

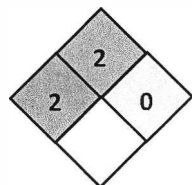
**HMIS Hazard ID**

|                            |          |
|----------------------------|----------|
| Health                     | 2        |
| Flammability               | 2        |
| Reactivity                 | 0        |
| <b>PERSONAL PROTECTION</b> | <b>E</b> |

E - Safety Glasses, Gloves & Dust Respirator

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*Chronic health effect

**NFPA Hazard ID**



|  |                 |
|--|-----------------|
|  | Flammability    |
|  | Health          |
|  | Reactivity      |
|  | Special hazard. |

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

|                             |                    |
|-----------------------------|--------------------|
| <b>Issue date:</b>          | 06/05/2015         |
| <b>Revision date:</b>       | No data available. |
| <b>Version #:</b>           | 1.1                |
| <b>Further information:</b> | No data available. |