

**Safety Data Sheet**  
**Metasyn Accelerated, Metasyn Normal**

SDS Revision Date:

06/01/2016



**1. Identification**

**1.1. Product identifier**

**Product Identity** Metasyn Accelerated, Metasyn Normal  
**Alternate Names** Arterial Embalming Chemical

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

**Intended use** Arterial Embalming chemical.  
**Application Method** See Technical Data Sheet.

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

**Company Name** The Dodge Chemical Company (Canada) Ltd.  
9 Progress Road  
Billerica, MA 01821

**Emergency**

**CHEMTREC (USA)** (800) 424-9300

**Customer Service: The Dodge Chemical Company (Canada) Ltd.** (800) 443-6343, (978) 600-2099

**2. Hazard(s) identification**

**2.1. Classification of the substance or mixture**

|                         |   |
|-------------------------|---|
| Combustible Liquid;H227 | Combustible Liquid.                                   |
| Acute Tox. 5;H303       | May be harmful if swallowed. (Not adopted by US OSHA) |
| Acute Tox. 4;H312       | Harmful in contact with skin.                         |
| Acute Tox. 3;H331       | Toxic if inhaled.                                     |
| Skin Corr. 1B;H314      | Causes severe skin burns and eye damage.              |
| Eye Dam. 1;H318         | Causes serious eye damage.                            |
| Skin Sens. 1;H317       | May cause an allergic skin reaction.                  |
| Muta. 2;H341            | Suspected of causing genetic defects.                 |
| Carc. 1B;H350           | May cause cancer.                                     |
| STOT SE 3;H335          | May cause respiratory irritation.                     |
| Aquatic Chronic 2;H411  | Toxic to aquatic life with long lasting effects.      |

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## 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

- H227 Combustible liquid.
- H303 May be harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H411 Toxic to aquatic life with long lasting effects.

### **[Prevention]:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
- P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P264 Wash 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.
- P273 Avoid release to the environment.
- P280 Wear protective gloves / eye protection / face protection.

### **[Response]:**

- P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
- P302+352 IF ON SKIN: Wash with plenty of soap and water.

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P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice / attention.

P310 Immediately call a POISON CENTER or doctor / physician.

P311 Call a POISON CENTER or doctor / physician.

P321 Specific treatment (see information on this label).

P331 Do NOT induce vomiting.

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

**[Storage]:**

P403+235 Store in a well ventilated place. Keep cool.

P405 Store locked up.

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

**3. Composition/information on ingredients**

This product contains the following substances that present a hazard within the meaning of the relevant Provincial and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations             | Weight % | GHS Classification   | Notes  |
|--|----------|--|--------|
| Formaldehyde<br>CAS Number: 0000050-00-0     | 10 - 25  | Carc. 1B;H350<br>Muta. 2;H341<br>Acute Tox. 3;H301<br>Acute Tox. 3;H311<br>Acute Tox. 3;H331<br>Skin Corr. 1B;H314<br>Skin Sens. 1;H317 >0.2 % | [1][2] |
| Propylene Glycol<br>CAS Number: 0000057-55-6 | 1 - 5    | Asp. Tox. 1;H304   | [1]    |

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|                                      |       |   |           |
|--------------------------------------|-------|---|-----------|
| Methanol<br>CAS Number: 0000067-56-1 | 1 - 5 | Flam. Liq. 2;H225<br>Acute Tox. 3;H331<br>Acute Tox. 3;H311<br>Acute Tox. 3;H301<br>STOT SE 1;H370 (> 10%)<br>STOT SE 2;H371 (3% ~ 10%) | [1][2][3] |
|--------------------------------------|-------|---|-----------|

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

|                   |   |
|-------------------|---|
| <b>General</b>    | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.   |
| <b>Inhalation</b> | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth. |
| <b>Eyes</b>       | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.  |
| <b>Skin</b>       | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.   |
| <b>Ingestion</b>  | If the person is conscious, have them drink water. Contact a physician immediately. Do not induce vomiting.   |

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

|                   |  |
|-------------------|--|
| <b>Overview</b>   | No specific symptom data available.<br>Reproductive or genetic defect hazard. See section 2 for further details. |
| <b>Inhalation</b> | Toxic if inhaled. May cause respiratory irritation.  |
| <b>Eyes</b>       | Causes serious eye damage.   |
| <b>Skin</b>       | Harmful in contact with skin. May cause an allergic skin reaction. Causes severe skin burns and eye damage.      |
| <b>Ingestion</b>  | May be harmful if swallowed.   |

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Dry chemical, foam, carbon dioxide and water fog.

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**5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition: May form formaldehyde gas, carbon oxides, hydrogen, formic acid and various hydrocarbons. Incomplete combustion may also produce irritating smoke and toxic and/or irritating gases or fumes.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Avoid breathing dust / fume / gas / mist / vapors / spray.

Do not get in eyes, on skin, or on clothing.

**5.3. Advice for fire-fighters**

Wear self-contained breathing apparatus to protect from decomposition products.

**ERG Guide No.**            ----

**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Keep container closed when not in use. Avoid contact with eyes, skin, or clothing.

**6.2. Environmental precautions**

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

**6.3. Methods and material for containment and cleaning up**

Vapor is heavier than air and may flow along surface to distant ignition source and flashback.

Neutralize residual product in the spill area using sodium carbonate or sodium bicarbonate.

DO NOT USE COMBUSTIBLE MATERIALS.

**7. Handling and storage**

**7.1. Precautions for safe handling**

Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

See section 2 for further details. - [Prevention]:

**7.2. Conditions for safe storage, including any incompatibilities**

Handle containers carefully to prevent damage and spillage.

Store in a cool dry area, away from heat, sparks and open flame. Keep containers sealed when not in use. Store out of direct sunlight.

Incompatible materials: Avoid contact with strong oxidizers, strong alkalies, strong mineral acids, phenol and urea.

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See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure

| CAS No.      | Ingredient       | Source   | Value   |
|--------------|------------------|----------|---|
| 0000050-00-0 | Formaldehyde     | OSHA     | TWA 0.75 ppm STEL 2 ppm                               |
|              |                  | ACGIH    | STEL: 0.3 ppm Ceiling: 1 ppm S, A2, 1                 |
|              |                  | NIOSH    | Ca TWA 0.016 ppm C 0.1 ppm [15-minute]                |
|              |                  | Supplier | No Established Limit                                  |
| 0000057-55-6 | Propylene Glycol | OSHA     | No Established Limit                                  |
|              |                  | ACGIH    | TWA(Aerosol): 10 mg/m3                                |
|              |                  | NIOSH    | No Established Limit                                  |
|              |                  | Supplier | 10 mg/m3 TWA (listed as AIHA WEEL)                    |
| 0000067-56-1 | Methanol         | OSHA     | TWA 200 ppm (260 mg/m3)                               |
|              |                  | ACGIH    | TWA: 200 ppm STEL: 250 ppm Skin                       |
|              |                  | NIOSH    | TWA 200 ppm (260 mg/m3) ST 250 ppm (325 mg/m3) [skin] |
|              |                  | Supplier | No Established Limit                                  |

#### Carcinogen Data

| CAS No.      | Ingredient       | Source | Value   |
|--------------|------------------|--------|---|
| 0000050-00-0 | Formaldehyde     | OSHA   | Select Carcinogen: Yes  |
|              |                  | NTP    | Known: Yes; Suspected: Yes  |
|              |                  | IARC   | Group 1: Yes; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
| 0000057-55-6 | Propylene Glycol | OSHA   | Select Carcinogen: No   |
|              |                  | NTP    | Known: No; Suspected: No  |
|              |                  | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;  |
| 0000067-56-1 | Methanol         | OSHA   | Select Carcinogen: No   |
|              |                  | NTP    | Known: No; Suspected: No  |
|              |                  | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;  |

### 8.2. Exposure controls

#### Respiratory

No necessary where area is properly ventilated.

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|                             |   |
|-----------------------------|---|
| <b>Eyes</b>                 | Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.  |
| <b>Skin</b>                 | Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact. Wear PVC or rubber gloves.   |
| <b>Engineering Controls</b> | Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn. |
| <b>Other Work Practices</b> | Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.   |

See section 2 for further details. - [Prevention]:

### 9. Physical and chemical properties

|  |   |
|--|---|
| <b>Appearance</b>                                      | Clear, slightly viscous, fluorescent orange Liquid  |
| <b>Odor</b>  | Pungent   |
| <b>Odor threshold</b>                                  | Not determined  |
| <b>pH</b>  | 8 - 9.2   |
| <b>Melting point / freezing point</b>                  | Not Measured  |
| <b>Initial boiling point and boiling range</b>         | 91 - 97 C (196 - 207F)  |
| <b>Flash Point</b>                                     | 61 - 63C (142 - 146F)   |
| <b>Evaporation rate (Ether = 1)</b>                    | < 1 (n-Butyl acetate = 1)   |
| <b>Flammability (solid, gas)</b>                       | Not Applicable  |
| <b>Upper/lower flammability or explosive limits</b>    | <b>Lower Explosive Limit:</b> 7 (formaldehyde)<br><b>Upper Explosive Limit:</b> 73 (formaldehyde) |
| <b>Vapor pressure (Pa)</b>                             | Not Measured  |
| <b>Vapor Density</b>                                   | >1  |
| <b>Specific Gravity</b>                                | 1.050 - 1.070   |
| <b>Solubility in Water</b>                             | Complete  |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | Not Measured  |
| <b>Auto-ignition temperature</b>                       | Not Measured  |
| <b>Decomposition temperature</b>                       | Not Measured  |
| <b>Viscosity (cSt)</b>                                 | Not Measured  |
| <b>VOC Content</b>                                     | 97%   |

#### 9.2. Other information

No other relevant information.

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**10. Stability and reactivity**

**10.1. Reactivity**

Hazardous Polymerization will not occur.

**10.2. Chemical stability**

Stable under the recommended storage and handling conditions prescribed. At higher temperatures, product may form formic acid and methanol.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Avoid heat and open flame. Exposure to cold may cause precipitation of the polymer, will redissolve upon gentle heating.

**10.5. Incompatible materials**

Avoid contact with strong oxidizers, strong alkalies, strong mineral acids, phenol and urea.

**10.6. Hazardous decomposition products**

May form formaldehyde gas, carbon oxides, hydrogen, formic acid and various hydrocarbons. Incomplete combustion may also produce irritating smoke and toxic and/or irritating gases or fumes.

**11. Toxicological information**

**Acute toxicity**

| Ingredient                   | Oral LD50, mg/kg              | Skin LD50, mg/kg                 | Inhalation Vapor LC50, mg/L/4hr | Inhalation Dust/Mist LC50, mg/L/4hr | Inhalation Gas LC50, ppm      |
|------------------------------|-------------------------------|----------------------------------|---------------------------------|-------------------------------------|-------------------------------|
| Formaldehyde - (50-00-0)     | 800.00, Rat - Category: 4     | 270.00, Rabbit - Category: 3     | No data available               | No data available                   | 168.00, Rat - Category: NA    |
| Propylene Glycol - (57-55-6) | 20,000.00, Rat - Category: NA | 20,800.00, Rabbit - Category: NA | 105.00, Rat - Category: NA      | No data available                   | No data available             |
| Methanol - (67-56-1)         | 143.00, Human - Category: 3   | No data available                | No data available               | No data available                   | 64,000.00, Rat - Category: NA |

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Classification        | Category | Hazard Description                                    |
|-----------------------|----------|---|
| Acute toxicity (oral) | 5        | May be harmful if swallowed. (Not adopted by US OSHA) |



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|                               |     |  |
|-------------------------------|-----|--|
| Acute toxicity (dermal)       | 4   | Harmful in contact with skin.            |
| Acute toxicity (inhalation)   | 3   | Toxic if inhaled.                        |
| Skin corrosion/irritation     | 1B  | Causes severe skin burns and eye damage. |
| Serious eye damage/irritation | 1   | Causes serious eye damage.               |
| Respiratory sensitization     | --- | Not Applicable                           |
| Skin sensitization            | 1   | May cause an allergic skin reaction.     |
| Germ cell mutagenicity        | 2   | Suspected of causing genetic defects.    |
| Carcinogenicity               | 1B  | May cause cancer.                        |
| Reproductive toxicity         | --- | Not Applicable                           |
| STOT-single exposure          | 3   | May cause respiratory irritation.        |
| STOT-repeated exposure        | --- | Not Applicable                           |
| Aspiration hazard             | --- | Not Applicable                           |

**12. Ecological information**

**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

**Aquatic Ecotoxicity**

| Ingredient                   | 96 hr LC50 fish,<br>mg/l       | 48 hr EC50 crustacea,<br>mg/l | ErC50 algae,<br>mg/l                               |
|------------------------------|--------------------------------|-------------------------------|--|
| Formaldehyde - (50-00-0)     | 1.41, Oncorhynchus mykiss      | 5.80, Daphnia pulex           | 0.788 (96 hr), Ulva pertusa                        |
| Propylene Glycol - (57-55-6) | 40,613.00, Oncorhynchus mykiss | 18,340.00, Ceriodaphnia dubia | 19,000.00 (96 hr), Pseudokirchneriella subcapitata |
| Methanol - (67-56-1)         | 100.00, Pimephales promelas    | 10,000.00, Daphnia magna      | 16.912 (96 hr), Ulva pertusa                       |

**12.2. Persistence and degradability**

There is no data available on the preparation itself.

**12.3. Bioaccumulative potential**

Not Measured

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This product contains PBT/vPvB chemicals.

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**12.6. Other adverse effects**

No data available.

**13. Disposal considerations**

**13.1. Waste treatment methods**

Observe all federal, provincial and local regulations when disposing of this substance.

**14. Transport information**

|   | <b>DOT (Domestic Surface Transportation)</b> | <b>IMO / IMDG (Ocean Transportation)</b>                        | <b>ICAO/IATA</b>                 |
|---|--|---|----------------------------------|
| <b>14.1. UN number</b>                    | Not Applicable                               |   |                                  |
| <b>14.2. UN proper shipping name</b>      | Not Regulated                                | Not Regulated   | Not Regulated                    |
| <b>14.3. Transport hazard class(es)</b>   | <b>DOT Hazard Class:</b> Not Applicable      | <b>IMDG:</b> Not Applicable<br><b>Sub Class:</b> Not Applicable | <b>Air Class:</b> Not Applicable |
| <b>14.4. Packing group</b>                | Not Applicable                               | Not Applicable  | Not Applicable                   |
| <b>14.5. Environmental hazards</b>        |  |   |                                  |
| <b>IMDG</b>                               | Marine Pollutant: Yes; ( Formaldehyde )      |   |                                  |
| <b>14.6. Special precautions for user</b> | No further information                       |   |                                  |

**15. Regulatory information**

|   |  |
|---|--|
| <b>Regulatory Overview</b>                  | The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.                                  |
| <b>Toxic Substance Control Act ( TSCA )</b> | All components of this material are either listed or exempt from listing on the TSCA Inventory.  |
| <b>WHMIS Classification</b>                 | B3 D1B E   |
| <b>US EPA Tier II Hazards</b>               | <b>Fire:</b> Yes<br><b>Sudden Release of Pressure:</b> No<br><b>Reactive:</b> No<br><b>Immediate (Acute):</b> Yes<br><b>Delayed (Chronic):</b> Yes |

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**EPCRA 311/312 Chemicals and RQs (lbs):**

Formaldehyde ( 100.00)

Methanol ( 5,000.00)

**EPCRA 302 Extremely Hazardous:**

Formaldehyde

**EPCRA 313 Toxic Chemicals:**

Formaldehyde

Methanol

**Proposition 65 - Carcinogens (>0.0%):**

Formaldehyde

**Proposition 65 - Developmental Toxins (>0.0%):**

Methanol

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%):**

Formaldehyde

Methanol

Propylene Glycol

**Pennsylvania RTK Substances (>1%):**

Formaldehyde

Methanol

Propylene Glycol

|                              |
|------------------------------|
| <b>16. Other information</b> |
|------------------------------|

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

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The full text of the phrases appearing in section 3 is:

H225 Highly flammable liquid and vapor.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

H371 May cause damage to organs.

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The Dodge Chemical Company (Canada) Ltd.

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