

Regal Tan

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Regal Tan**

Other means of identification : Arterial Embalming Chemical

Recommended use of the chemical and restrictions on use

: Embalming Chemical  
Professional use only See technical data sheet.

Chemical family

: Mixture

Name, address, and telephone number  
of the supplier:

**The Dodge Company, Inc.**

9 Progress Road  
Billerica, MA, USA  
01821

Supplier's Telephone # : (800) 443 6343, (978) 600 2099

**24 Hr. Emergency Tel #** : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887  
(Outside U.S.).

Name, address, and telephone number of  
the manufacturer:

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Most important hazards:

Flammable. May be ignited by open flames and sparks. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. May produce an allergic reaction. Inhalation may cause central nervous system depression. May cause blindness if swallowed. May cause cancer. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Harmful to aquatic life with long lasting effects. Avoid release to the environment. See Section 12 for more environmental information.

This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Hazardous classification:

Flammable liquid - Category 3

Acute toxicity, oral - Category 4

Acute toxicity, dermal - Category 3

Acute Toxicity, inhalation - Category 3 (vapor)

Skin corrosion/irritation - Category 1

Eye damage/irritation - Category 1

Respiratory sensitization - Category 1

Skin sensitization - Category 1A

Carcinogenicity - Category 1

Germ Cell Mutagenicity - Category 2

Reproductive Toxicity-Category 1

Specific target organ toxicity, single exposure - Category 1

Specific target organ toxicity, single exposure - Category 3 (Respiratory irritation; Narcotic effects)

Chronic aquatic toxicity-Category 3

Label elements

Hazard pictogram(s)

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*Signal Word*

**DANGER!**

*Hazard statement(s)*

Flammable liquid and vapor.  
Harmful if swallowed.  
Toxic in contact with skin or if inhaled.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause cancer.  
Suspected of causing genetic defects.  
May damage fertility or the unborn child.  
Causes damage to the optic nerves (eyes) if swallowed.  
Harmful to aquatic life with long lasting effects.

*Precautionary statement(s)*

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.  
Keep container tightly closed.  
Ground/Bond container and receiving equipment.  
Use explosion-proof electrical and ventilating equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe mist or vapor.  
Wash hands and face thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/clothing and eye/face protection.  
[In case of inadequate ventilation] wear respiratory protection.  
Avoid release to the environment.

IF exposed or concerned: Get medical attention/advice.  
Specific treatment (see this label).

Immediately call a POISON CENTER or doctor/physician.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re-use.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Collect spillage.

Store in a well-ventilated place. Keep container tightly closed.  
Keep cool.  
Store locked up.

Dispose of contents/container in accordance with local regulation.

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### Other hazards

Other hazards which do not result in classification:

Toxic fumes may be released during a fire. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Formaldehyde	Methanal Methyl Aldehyde Methylene oxide	50-00-0	10.0 - 30.0
Methanol	Carbinol Methyl alcohol Methyl hydrate	67-56-1	5.0 - 10.0
Hexylene glycol	2-Methyl-2,4-pentanediol	107-41-5	1.0 - 5.0
Borax	Disodium tetraborate, decahydrate	1303-96-4	1.0 - 5.0
Glutaraldehyde	Pentanedial	111-30-8	1.0 - 5.0
Ethylenediaminetetraacetic acid disodium salt	EDTA Disodium dihydrate	6381-92-6	1.0 - 5.0
Nonylphenoxyethoxyethanol	Nonyphenol, branched	68412-54-4	0.1 - 1.0
Sodium benzoate	Sodium benzoic acid	532-32-1	0.1 - 1.0
Sodium acetate	Acetic Acid, sodium salt	127-09-3	0.1 - 1.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor/physician.
- Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Immediately call a POISON CENTER or doctor/physician.
- Skin contact* : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re-use. Immediately call a POISON CENTER or doctor/physician.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 20 minutes. Immediately call a POISON CENTER or doctor/physician.

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

- : Causes damage to the optic nerves (eyes) if swallowed. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. May cause allergic respiratory reaction (sensitization) with asthmatic symptoms such as wheezing and chest tightness. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. Inhaling high concentrations may cause central nervous system depression, with effects ranging from dizziness and headache to unconsciousness. May cause cancer. Suspected of causing genetic defects. May damage fertility or the unborn child. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

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

- : Immediate medical attention is required. Causes chemical burns. Contains methanol. Provide general supportive measures and treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### *Suitable extinguishing media*

- : Dry chemical, foam, carbon dioxide and water fog.

#### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread the fire.

### Special hazards arising from the substance or mixture / Conditions of flammability

- : Flammable liquid and vapor. Will ignite when exposed to heat, flame and other sources of ignition. Vapours are heavier than air and collect in confined and low-lying areas. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

### Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable liquid - Category 3

### Hazardous combustion products

- : Carbon oxides; formaldehyde; Nitrogen oxides (NOx); Alcohol; Hydrogen chloride gas; Ammonia; Other unidentified organic compounds.

### Special protective equipment and precautions for firefighters

#### *Protective equipment for fire-fighters*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

#### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

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**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. Avoid release to the environment.

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

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Eliminate all ignition sources. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labeled containers. Do not use combustible absorbents, such as sawdust. Refer to Section 13 for disposal of contaminated material. Contact the proper local authorities.

**Special spill response procedures**

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).  
US CERCLA Reportable quantity (RQ): See section 15.

### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling**

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.  
Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.  
Use only outdoors or in a well-ventilated area. Wear protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Do not breathe dust, fume or vapor. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame - No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep away from incompatibles. Keep container tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Contaminated work clothing should not be allowed out of the workplace.

**Conditions for safe storage** : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

**Incompatible materials** : Oxidizing agents; Acids; Bases

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### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Formaldehyde	0.3 ppm (Ceiling)	N/Av	0.75 ppm	2 ppm
Methanol	200 ppm (skin)	250 ppm (skin)	200 ppm (260 mg/m <sup>3</sup> )	N/Av
Hexylene glycol	25 ppm (Ceiling)	N/Av	25 ppm (Ceiling) (final rule limit)	N/Av
Borax	2 mg/m <sup>3</sup> (inhalable fraction, listed under Borate compounds, inorganic)	6 mg/m <sup>3</sup> (inhalable fraction, listed under Borate compounds, inorganic)	N/Av	N/Av
Glutaraldehyde	N/Av	N/Av	N/Av	N/Av
Ethylenediaminetetraacetic acid disodium salt	N/Av	N/Av	N/Av	N/Av
Nonylphenoxypolyethoxyethanol	N/Av	N/Av	N/Av	N/Av
Sodium benzoate	N/Av	N/Av	N/Av	N/Av
Sodium acetate	N/Av	N/Av	N/Av	N/Av

### Exposure controls

#### Ventilation and engineering measures

- : Use only outdoors or in a well-ventilated area. Use with adequate local or mechanical ventilation to meet TLV requirements. Use explosion-proof electrical and ventilating equipment.

#### Respiratory protection

- : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with CSA Z94.4-02.

#### Skin protection

- : Wear protective gloves/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear resistant clothing and boots.

#### Eye / face protection

- : Wear eye/face protection. Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles.

#### Other protective equipment

- : An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

#### General hygiene considerations

- : Do not breathe dust, fume or vapor. Avoid contact with skin, eyes and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Clear, straw-coloured liquid.
- Odour** : Faint odour.
- Odour threshold** : Not available.
- pH** : Not available.

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**Melting Point/Freezing point** : Not available.

**Initial boiling point and boiling range**

: Not available.

**Flash point** : >23°C

**Flashpoint (Method)** : Tag closed cup

**Evaporation rate (BuAe = 1)** : Not available.

**Flammability (solid, gas)** : Not applicable.

**Lower flammable limit (% by vol.)**

: Not available.

**Upper flammable limit (% by vol.)**

: Not available.

**Oxidizing properties** : None known.

**Explosive properties** : Not explosive

**Vapour pressure** : Not available.

**Vapour density** : Not available.

**Relative density / Specific gravity**

: >1

**Solubility in water** : Not available.

**Other solubility(ies)** : Not available.

**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**

: Not available.

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

**Viscosity** : Not available.

**Volatiles (% by weight)** : Not available.

**Volatile organic Compounds (VOC's)**

: Not available.

**Absolute pressure of container**

: Not applicable.

**Flame projection length** : Not applicable.

**Other physical/chemical comments**

: No additional information.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not normally reactive.

**Chemical stability** : Stable under normal conditions.

**Possibility of hazardous reactions**

: Hazardous polymerization does not occur.

**Conditions to avoid** : Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Avoid heat and open flame.

**Incompatible materials** : Oxidizing agents; Acids; Bases

**Hazardous decomposition products**

: None known, refer to hazardous combustion products in Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

**Routes of entry inhalation** : YES

**Routes of entry skin & eye** : YES

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Routes of entry Ingestion : YES

Routes of exposure skin absorption  
: YES

### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

##### *Sign and symptoms Inhalation*

: May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. Inhalation may cause headache, nausea and central nervous effects such as dizziness, coordination difficulties and unconsciousness.

##### *Sign and symptoms ingestion*

: May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations and bleeding.

##### *Sign and symptoms skin*

: Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring.

##### *Sign and symptoms eyes*

: Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage.

#### Potential Chronic Health Effects

: Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

#### Mutagenicity

: Suspected of causing genetic defects.  
Contains: Formaldehyde. Formaldehyde may cause mutations to non-reproductive (somatic) cells, based on animal data.

#### Carcinogenicity

: May cause cancer.  
Contains formaldehyde. Formaldehyde is classified as carcinogenic by IARC (Group 1), ACGIH (Group A2) and NTP (Group 2).

#### Reproductive effects & Teratogenicity

: May damage fertility or the unborn child. Contains Sodium tetraborate (Borax). Contains methanol.

#### Sensitization to material

: May cause an allergic skin reaction. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. May cause allergic respiratory reaction (sensitization) with asthmatic symptoms such as wheezing and chest tightness.

#### Specific target organ effects

: Specific target organ toxicity, single exposure - Category 1. Causes damage to the optic nerves (eyes) if swallowed.  
Specific target organ toxicity, single exposure - Category 3. May cause respiratory irritation. May cause drowsiness or dizziness.

#### Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

#### Synergistic materials

: No information available.

#### Toxicological data

: Not classified for acute toxicity based on available data. The calculated ATE values for this mixture are:  
ATE oral = 830.14mg/kg  
ATE dermal = 950.36mg/kg  
ATE inhalation (vapours) = 3.45mg/L/4H  
ATE inhalation (dust/mist) = 28 mg/L/4H

See below for individual ingredient acute toxicity data.

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<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Formaldehyde	287 ppm	800 mg/kg (rat) The estimated human lethal dose is: 317 - 475 mg/kg	300 mg/kg
Methanol	> 5000 ppm/6H (4.1 mg/L/4H (vapour))	5628 mg/kg (rat) The estimated human lethal dose is: 300 - 1000 mg/kg	> 393 mg/kg (Monkey) 15 800 mg/kg (rabbit)
Hexylene glycol	N/Av	3690 mg/kg	12 260 mg/kg
Borax	> 2.03 mg/L (dust) (No mortality)	5560 mg/kg	> 2000 mg/kg (No mortality)
Glutaraldehyde	0.1 mg/L 4 h	66 mg/kg	>2000 mg/kg
Ethylenediaminetetraacetic acid disodium salt	N/Av	2000mg/kg	N/Av
Nonylphenoxypolyethoxyethanol	N/Av	N/Av	N/Av
Sodium benzoate	> 12.2 mg/L (dust) (No mortality) (Read-across)	2100 mg/kg	> 2000 mg/kg (No mortality) (Read-across)
Sodium acetate	>30 g/m <sup>3</sup> 1 h	3530 mg/kg	N/Av

### Other important toxicological hazards

: None known or reported by the manufacturer.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

: Harmful to aquatic life with long lasting effects. No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for individual ingredient ecotoxicity data.

### Ecotoxicity data:

<u>Ingredients</u>	<u>CAS #</u>	<u>Toxicity to Fish</u>		
		<u>LC<sub>50</sub> / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Formaldehyde	50-00-0	6.7 mg/L (Striped bass)	≥ 48 mg/L/28-day (Japanese ricefish)	None.
Methanol	67-56-1	15 400 mg/L (Bluegill sunfish)	446.7 mg/L/28-day (Fathead minnow) (QSAR)	None.
Hexylene glycol	107-41-5	8510 mg/L (Mosquito fish)	N/Av	None.
Borax	1303-96-4	79.7 mg/L (Fathead minnow)	11.2 mg/L	None.
Glutaraldehyde	111-30-8	5.4 mg/L	N/Av	None.
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	320 mg/L (Guppy)	>25.7 mg/L (Zebra fish)	None.
Nonylphenoxypolyethoxyethanol	68412-54-4	N/Av	N/Av	None.
Sodium benzoate	532-32-1	484 mg/L (Fathead minnow)	N/Av	None.
Sodium acetate	127-09-3	>100mg/L (Zebra fish)	N/Av	None.

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<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Formaldehyde	50-00-0	5.8 mg/L (Daphnia magna)	N/Av	None.
Methanol	67-56-1	> 10 000 mg/L (Daphnia magna)	208 mg/L (QSAR)	None.
Hexylene glycol	107-41-5	2800 mg/L (Daphnia magna)	N/Av	None.
Borax	1303-96-4	91 mg/L Ceriodaphnia (water flea)	10.8 mg/L (Daphnia magna) (Read-across)	None.
Glutaraldehyde	111-30-8	0.56 - 1.0 mg/L	N/Av	1
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	140mg/L (Daphnia magna)	25 mg/L (Daphnia magna)	None.
Nonylphenoxypolyethoxyethanol	68412-54-4	N/Av	N/Av	None.
Sodium benzoate	532-32-1	> 100 mg/L (Daphnia magna)	N/Av	None.
Sodium acetate	127-09-3	>919 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Formaldehyde	50-00-0	14.7 mg/L/24hr (Green algae)	N/Av	None.
Methanol	67-56-1	22 000 mg/L/96hr (Green algae)	N/Av	None.
Hexylene glycol	107-41-5	> 429 mg/L/72hr (Green algae)	429 mg/L/72hr	None.
Borax	1303-96-4	52.4 mg/L/72hr (Green algae) (Read-across)	17.5 mg/L/72hr (Read-across)	None.
Glutaraldehyde	111-30-8	0.61 mg/L	N/Av	1
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	>60 mg/L (Green algae)	48.4 mg/L (Green algae)	None.
Nonylphenoxypolyethoxyethanol	68412-54-4	N/Av	N/Av	None.
Sodium benzoate	532-32-1	> 30.5 mg/L/72hr (Green algae)	N/Av	None.
Sodium acetate	127-09-3	>1000mg/L (Green algae)	1000 mg/L (Green algae)	None.

### Persistence and degradability

: No data is available on the product itself.

### Bioaccumulation potential

: No data is available on the product itself. See the following data for ingredient information.

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<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Formaldehyde (CAS 50-00-0)	0.35	3.0
Methanol (CAS 67-56-1)	- 0.82 to - 0.64	< 10 (common carp)
Hexylene glycol (CAS 107-41-5)	<0.14	
Borax (CAS 1303-96-4)	N/Av	121 (filamentous algae)
Glutaraldehyde (CAS 111-30-8)	0.22	N/Av
Ethylenediaminetetraacetic acid disodium salt (CAS 6381-92-6)	N/Av	
Sodium benzoate (CAS 532-32-1)	- 2.269	no bioaccumulation
Sodium acetate (CAS 127-09-3)	-3.72	3.162

**Mobility in soil** : No data is available on the product itself.

**Other Adverse Environmental effects**

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle waste according to recommendations in Section 7. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.

**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

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### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1198	Formaldehyde, solutions, flammable	3(8)	III	
<b>49CFR/DOT Additional information</b>	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. Refer to 49 CFR Section 173.150. formaldehyde RQ=100lbs				
TDG	UN1198	FORMALDEHYDE SOLUTION, FLAMMABLE	3(8)	III	
<b>TDG Additional information</b>	May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not exceeding 30 kg (66 pounds) gross mass.				
ICAO/IATA	UN1198	Formaldehyde solution, flammable	3(8)	III	
<b>ICAO/IATA Additional information</b>	Refer to ICAO/IATA Packing Instruction				
IMDG	UN1198	FORMALDEHYDE SOLUTION, FLAMMABLE	3(8)	III	
<b>IMDG Additional information</b>	May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not exceeding 30 kg (66 pounds) gross mass. EmS No. F-E, S-C				

**Special precautions for user** : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking. Avoid release to the environment.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
 : Not applicable.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:



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**SAFETY DATA SHEET**

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Formaldehyde	50-00-0	Yes	100 lbs / 45.4 kg	500 lb TPQ	Yes	0.1%
Methanol	67-56-1	Yes	5000 lbs / 2270 kg	None.	Yes	1%
Hexylene glycol	107-41-5	Yes	None.	None.	No	N/Ap
Borax	1303-96-4	Yes	N/Ap	N/Av	No	NS
Glutaraldehyde	111-30-8	Yes	N/Ap	N/Av	No	N/Ap
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	NL	N/Ap	N/Av	No	N/Ap
Nonylphenoxypolyethoxy ethanol	68412-54-4	Yes	N/Ap	N/Av	No	NS
Sodium benzoate	532-32-1	Yes	None.	None.	No	N/Ap
Sodium acetate	127-09-3	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Acute toxicity;Skin corrosion; Eye Damage ;Skin sensitization ;Respiratory sensitization; Carcinogenicity Germ cell mutagenicity; Reproductive toxicity;Specific target organ toxicity, single exposure

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Formaldehyde	50-00-0	Yes	Cancer (gas)	Yes	Yes	Yes	Yes	Yes	Yes
Methanol	67-56-1	Yes	Developmental	Yes	Yes	Yes	Yes	Yes	Yes
Hexylene glycol	107-41-5	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Borax	1303-96-4	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Glutaraldehyde	111-30-8	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	No	N/Ap	No	No	No	No	No	No
Nonylphenoxypolyethoxy ethanol	68412-54-4	No	N/Ap	No	No	No	No	No	No
Sodium benzoate	532-32-1	No	N/Ap	No	No	No	No	No	No
Sodium acetate	127-09-3	No	N/Ap	No	No	No	No	No	No

**Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

**International Information:**

Components listed below are present on the following International Inventory list:

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## SAFETY DATA SHEET

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Formaldehyde	50-00-0	200-001-8	Present	Present	(2)-482	KE-17074	Present	HSR001584, HSR001162, HSR001518, HSR001583 (dilution)
Methanol	67-56-1	200-659-6	Present	Present	(2)-201	KE-23193	Present	HSR001186
Hexylene glycol	107-41-5	203-489-0	Present	Present	(2)-240	KE-24702	Present (19504)	HSR003002
Borax	1303-96-4	215-540-4 (hydrated)	Present	Present	(1)-69	KE-03483	Present	HSR002914
Glutaraldehyde	111-30-8	203-856-5	Present	Present	(2)-509	KE-27969	Present	HSR001535
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	N/Av	Present	Present	(2)-1265	Not listed	Present	HSR003376
Nonylphenoxypolyethoxy ethanol	68412-54-4	N/Av	Present	Present	(7)-172; (7)-172	KE-03587	Present	HSR003228
Sodium benzoate	532-32-1	208-534-8	Present	Present	(3)-1293; (3)-1272; (3)-1076	KE-02711	Present	HSR002716
Sodium acetate	127-09-3	204-823-8	Present	Present	(2)-692	KE-00061	Present	HSR003156

### SECTION 16. OTHER INFORMATION

#### Legend

: ACGIH: American Conference of Governmental Industrial Hygienists  
AICS: Australian Inventory of Chemical Substances  
ATE: Acute Toxicity Estimate  
CAS: Chemical Abstract Services  
ENCS: Existing and New Chemical Substances  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
IMDG: International Maritime Dangerous Goods  
IOC: Inventory of Chemicals  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
MSHA: Mine Safety and Health Administration  
N/Av: Not Applicable  
N/Av: Not Available  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NOEC: No observable effect concentration  
OECD: Organisation for Economic Co-operation and Development  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TWA: Time Weighted Average  
TSCA: Toxic Substance Control Act

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## SAFETY DATA SHEET

**References** : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices  
2. ECHA - European Chemical Agency  
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases  
4. Safety Data Sheets from manufacturer.  
5. US EPA Title III List of Lists  
6. California Proposition 65 List  
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

**Preparation Date (mm/dd/yyyy)**  
: 08/29/2023

**Other special considerations for handling**  
: Provide adequate information, instruction and training for operators.

<p><b><u>Prepared for:</u></b> The Dodge Company, Inc 9 Progress Road Billerica, MA 01821 (800) 443 6343</p>	
<p><b><u>Prepared by:</u></b> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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