

Section 1. Identification

Product identifier

Product Identity

Halt Cavity

Other means of identification

Halt Cavity

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

See Technical Data Sheet.

Details of the supplier of the safety data sheet

Company Name

The Dodge Company, Inc.
9 Progress Road
Billerica, MA 01821

Emergency

CHEMTREC (USA)

(800) 424-9300

Customer Service:

(800) 443-6343, (978) 600-2099

Section 2. Hazard(s) identification

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Flammable Liquid, category 3;H226

Acute toxicity(oral), category 4;H302

Acute toxicity(dermal), category 4;H312

Acute toxicity(inhalation), category 3;H331

Skin corrosion/irritation category 2;H315

Serious eye damage / eye irritation, category 1;H318

Skin sensitizer category 1;H317

Respiratory sensitization, category 1;H334

Germ cell mutagenicity, category 2;H341

Carcinogen, category 1B;H350

Specific target organ toxicity, Specific exposure category 2;H371

Specific target organ toxicity, Specific exposure category 3;H335

Aquatic toxicity (acute), category 2;H401

Aquatic toxicity (chronic), category 2;H411

Label elements

Flammable liquid and vapor.

Harmful if swallowed.

Harmful in contact with skin.

Toxic if inhaled.

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Suspected of causing genetic defects.

May cause cancer.

May cause damage to organs. Specific Target Organs: (central nervous system, eyes)

May cause respiratory irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.



Danger

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H371 May cause damage to organs.
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, and other ignition sources - No smoking.
P233 Keep container tightly closed.
P240 Ground, bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating, light, equipment.
P242 Use only non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe dust, fume, mist, vapors or spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
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, and face protection.
P284 In case of inadequate ventilation, wear respiratory protection.

[Response]

P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 or attention.
P310 Immediately call a POISON CENTER, doctor or physician.
P330 Rinse mouth.
P333+313 If skin irritation or a rash occurs: Get medical advice or attention.
P342+311 If experiencing respiratory symptoms: Call a POISON CENTER, doctor or physician.
P362+364 Take off contaminated clothing and wash it before reuse.
P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.
P391 Collect spillage.

[Storage]

P403+233 Store in a well ventilated place. Keep container tightly closed.
P403+235 Store in a well ventilated place. Keep cool.

P405 Store locked up.

[Disposal]

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

Other hazards

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Formaldehyde CAS Number: 50-00-0 Synonyms: No available information	10 - 30	Carcinogen, category 1B;H350 Germ cell mutagenicity, category 2;H341 Acute toxicity(oral), category 3;H301 Acute toxicity(dermal), category 3;H311 Acute toxicity(inhalation), category 3;H331 Skin corrosion/irritation category 1B;H314 $\geq 25\%$ Skin corrosion/irritation category 2;H315 $5\% \leq C < 25\%$ Skin sensitizer category 1;H317 $>0.2\%$ Specific target organ toxicity, Specific exposure category 3;H335 $\geq 5\%$	-----
Methanol CAS Number: 67-56-1 Synonyms: METHYL ALCOHOL, methanol (as methanol)	3 - 7	Flammable Liquid, category 2;H225 Acute toxicity(inhalation), category 3;H331 Acute toxicity(oral), category 3;H301 Acute toxicity(dermal), category 3;H311 Specific target organ toxicity, Specific exposure category 1;H370 $C \geq 10\%$ Specific target organ toxicity, Specific exposure category 2;H371 $3\% \leq C < 10\%$	-----
Glutaraldehyde CAS Number: 111-30-8 Synonyms: 1,5-Pentanedial, Aldehyd glutarowy, Pentanedial, Glutaral	3 - 7	Acute toxicity(inhalation), category 2;H330 Acute toxicity(oral), category 3;H301 Specific target organ toxicity, Specific exposure category 3;H335: $0.5\% \leq C < 5\%$ Skin corrosion/irritation category 1B;H314 Respiratory sensitization, category 1;H334 Skin sensitizer category 1A;H317 Aquatic toxicity (acute), category 1;H400 Aquatic toxicity (chronic), category 1;H410	-----
Aluminum chloride hydroxide (Al ₂ Cl(OH) ₅) CAS Number: 12042-91-0 Synonyms: No available information	1 - 5	Not Classified	-----

The actual concentration or concentration range is withheld as a trade secret.

*PBT/vPvB - PBT-substance or vPvB-substance.

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

Section 4. First aid measures

Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation

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.

Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If the person is conscious, have them drink water. Contact a physician immediately. Do not induce vomiting.
Most important symptoms and effects, both acute and delayed	
Overview	Possible routes of entry are dermal, oral and inhalation. Contains material that can cause target organ damage (mucous membranes, gastrointestinal tract, upper respiratory tract, skin, eyes, central nervous system (CNS)). Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that pre-existing respiratory and skin disorders may be aggravated by exposure. May be fatal or cause blindness if swallowed. Reproductive or genetic defect hazard. Treat symptomatically. See section 2 for further details.
Eyes	Causes serious eye damage.
Skin	Harmful in contact with skin. May cause an allergic skin reaction. Causes skin irritation.
Ingestion	Harmful if swallowed.

Section 5. Fire-fighting measures

Extinguishing media

Dry chemical, foam, carbon dioxide and water fog.

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, and other ignition sources - No smoking.

Keep container tightly closed.

Ground, bond container and receiving equipment.

Use explosion-proof electrical, ventilating, light, equipment.

Use only non-sparking tools.

Take action to prevent static discharges.

Do not breathe dust, fume, mist, vapors or spray.

Advice for fire-fighters

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

ERG Guide No. 132

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

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.

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.

Section 7. Handling and storage

Precautions for safe handling

Avoid contact with skin. Avoid contact with eyes. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Launder contaminated clothing before reuse. Avoid environmental contamination.

See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities

Incompatible materials: Avoid contact with strong oxidants, strong alkalis, strong mineral acids, phenol and urea.

See section 2 for further details. - [Storage]

Specific end use(s)

No data available.

Section 8. Exposure controls / personal protection

Control parameters

		Exposure	
CAS No.	Ingredient	Source	Value
50-00-0	Formaldehyde	OSHA	0.75 ppm STEL 2 ppm
		ACGIH	0.1 ppm 0.3 ppm
		NIOSH	Ca TWA 0.016 ppm C 0.1 ppm [15-minute]
67-56-1	Methanol	OSHA	200 ppm, 260 mg/m ³
		ACGIH	200 ppm 250 ppm
		NIOSH	TWA 200 ppm (260 mg/m ³) STEL: 250 ppm (325 mg/m ³) [skin]
111-30-8	Glutaraldehyde	OSHA	No Established Limit
		ACGIH	C 0.05 ppm
		NIOSH	C 0.2 ppm (0.8 mg/m ³)
12042-91-0	Aluminum chloride hydroxide (Al ₂ Cl(OH) ₅)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit, they must use the appropriate, certified respirators.

Eyes

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.

Skin

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 to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

Engineering Controls

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.

Other Work Practices

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.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Liquid
Color	Blue
Odor	Pungent
Melting point / freezing point	N.A
Initial boiling point and boiling range	93-96C 200-204F
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 7% Upper Explosive Limit: 73%
Flash Point	55-57C 131-135F
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
pH	2.5-3.5
Viscosity (cSt)	Not Available
Solubility in Water	Not Available
Partition coefficient n-octanol/water (Log Kow)	Not Available
Vapor pressure (Pa)	Not Available
Relative Density	1.045-1.055
Vapor Density	Greater than 1
Evaporation rate (Ether = 1)	< 1 (n-Butyl acetate = 1)
VOC Content	99%
Other information	
No other relevant information.	

Section 10. Stability and reactivity

Reactivity

Hazardous Polymerization will not occur.

Chemical stability

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

Possibility of hazardous reactions

No data available.

Conditions to avoid

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

Incompatible materials

Avoid contact with strong oxidants, strong alkalis, strong mineral acids, phenol and urea.

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.



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Section 11. Toxicological information

Acute toxicity

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).

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)	260.00, Guinea Pig - Category: 3	270.00, Rabbit - Category: 3	No data available.	No data available.	1,000.00, Rat - Category: 3
Methanol - (67-56-1)	101.10, Rat - Category: 3	301.00, Rabbit - Category: 3	2.10, Rat - Category: 3	No data available.	No data available.
Glutaraldehyde - (111-30-8)	246.00, Rat - Category: 3	>2,000.00, Rabbit - Category: 5	No data available.	0.48, Rat - Category: 2	No data available.
Aluminum chloride hydroxide (Al ₂ Cl(OH) ₅) - (12042-91-0)	9,187.00, Rat - Category: NA	>2,000.00, Rat - Category: 5	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
50-00-0	Formaldehyde	OSHA	Regulated Carcinogen: Yes;
		NTP	Known: Yes; Suspected: Yes;
		IARC	Group 1: Yes; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	A1
67-56-1	Methanol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
111-30-8	Glutaraldehyde	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	A4
12042-91-0	Aluminum chloride hydroxide (Al ₂ Cl(OH) ₅)	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	4	Harmful in contact with skin.
Acute toxicity (inhalation)	3	Toxic if inhaled.
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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	2	May cause damage to organs.
STOT-single exposure	3	May cause respiratory irritation.



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STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry: No data available.

Symptoms and effects, both acute and delayed:

Possible routes of entry are dermal, oral and inhalation. Contains material that can cause target organ damage (mucous membranes, gastrointestinal tract, upper respiratory tract, skin, eyes, central nervous system (CNS)). Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that pre-existing respiratory and skin disorders may be aggravated by exposure. May be fatal or cause blindness if swallowed. Reproductive or genetic defect hazard. Treat symptomatically.

Eyes Causes serious eye damage.

Skin Harmful in contact with skin. May cause an allergic skin reaction. Causes skin irritation.

Ingestion Harmful if swallowed.

Section 12. Ecological information

Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Formaldehyde - (50-00-0)	1.41, Oncorhynchus mykiss	5.80, Daphnia pulex	No data available.
Methanol - (67-56-1)	15,400.00, Lepomis macrochirus	> 10,000.00, Daphnia magna	22,000.00, Pseudokirchneriella subcapitata
Glutaraldehyde - (111-30-8)	10.00, Oncorhynchus mykiss	29.73, Daphnia magna	1.20, Desmodesmus subspicatus
Aluminum chloride hydroxide (Al ₂ Cl(OH) ₅) - (12042-91-0)	101.00, Danio rerio	47.50, Daphnia magna	14.00, Pseudokirchneriella subcapitata

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

Not Available

Mobility in soil

No data available.

Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

Other adverse effects

No data available.

Section 13. Disposal considerations

Waste treatment methods

Waste should not be released to sewers. Observe all federal, state, and local regulations when disposing of this substance.

Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN1198		
UN proper shipping name	UN1198, Formaldehyde solutions, flammable, 3, III	Formaldehyde solutions, flammable	Formaldehyde solutions, flammable
Transport hazard class(es)	DOT Hazard Class: 3 Sub Class: Not Applicable	IMDG: 3 Sub Class: Not Applicable	Air Class: Not Applicable Sub Class: Not Applicable
Packing group	III	III	III
Environmental hazards	Marine Pollutant: Yes; (Glutaraldehyde)		
Special precautions for user	Not Applicable		

Section 15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
0012042-91-0	Aluminum chloride hydroxide (Al ₂ Cl(OH) ₅)	Yes		ACTIVE
0000050-00-0	Formaldehyde	Yes		ACTIVE
0000111-30-8	Glutaraldehyde	Yes		ACTIVE
0000067-56-1	Methanol	Yes		ACTIVE

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.

Proposition 65 Label Warning:



WARNING: This product can expose you to chemicals including [Formaldehyde], which is known to the State of California to cause cancer, and [Methanol], which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 16. Other information

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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.

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

H225 Highly flammable liquid and vapor.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

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

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

H371 May cause damage to organs.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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