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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity Perma Seel Aerosol

Alternate Names Multi Purpose External Embalming Seal

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

Intended useExternal Embalming SealApplication MethodSee Technical Data Sheet.

1.3. 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

The Dodge Company, Inc (800) 443-6343, (978) 600-2099

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Flam. Gas 1;H220 Extremely flammable gas.
Flam. Aerosol 1;H222 Extremely flammable aerosol.

Press. Gas;H280 Contains gas under pressure; may explode if heated.

Flam. Liq. 1;H224 Extremely flammable liquid and vapor.

Acute Tox. 4;H302 Harmful if swallowed.

Acute Tox. 5;H313 May be harmful in contact with skin. (Not adopted by US OSHA)

Skin Irrit. 2;H315 Causes skin irritation.

Eye Irrit. 2;H319 Causes serious eye irritation.

Repr. 1B;H360Df May damage the unborn child. Suspected of damaging fertility.

STOT SE 3;H336 May cause drowsiness or dizziness.

STOT RE 2;H373 May cause damage to organs through prolonged or repeated exposure.

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

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H224 Extremely flammable liquid and vapor.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H313 May be harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness and dizziness.
- H360 May damage fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- 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.
- P211 Do not spray on an open flame or other ignition source.
- P241 Use explosion-proof electrical / ventilating / light / equipment.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P261 Avoid breathing dust / fume / gas / mist / vapors / 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.
- P273 Avoid release to the environment.



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P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor / 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 victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 IF IN EYES: Rinse continuously 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.

P314 Get Medical advice / attention if you feel unwell.

P321 Specific treatment (see information on this label).

P330 Rinse mouth.

P337+313 If eye irritation persists: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

P377 Leaking gas fire - do not extinguish unless leak can be stopped safely.

P381 Eliminate all ignition sources if safe to do so.

P391 Collect spillage.

[Storage]:

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

P405 Store locked up.

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.

[Disposal]:

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



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3. Composition/information on ingredients

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

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
2-Propanone CAS Number: 0000067-64-1	25 - 50	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	[1][2]
Toluene CAS Number: 0000108-88-3	10 - 25	Flam. Liq. 2;H225 Repr. 2;H361d Asp. Tox. 1;H304 STOT RE 2;H373 Skin Irrit. 2;H315 STOT SE 3;H336	[1][2]
Propane CAS Number: 0000074-98-6	10 - 25	Flam. Gas 1;H220 Press. Gas;H280	[1][2]
Butane CAS Number: 0000106-97-8	1.0 - 10	Flam. Gas 1;H220 Press. Gas;H280	[1][2]
Dibutyl phthalate CAS Number: 0000084-74-2	1.0 - 10	Repr. 1B;H360Df Aquatic Acute 1;H400	[1][2]

- [1] Substance classified with a health or environmental hazard.
- [2] Substance with a workplace exposure limit.
- [3] PBT-substance or vPvB-substance.

4. First aid measures

4.1. Description of first aid measures

General Move victim to fresh air.

Call 911 or emergency medical service if deemed necessary.

Give artificial respiration if victim is not breathing.

Administer oxygen if breathing is difficult.

Remove and isolate contaminated clothing and shoes.

In case of contact with liquefied gas, thaw frosted parts with lukewarm water.

Keep victim warm and quiet.

Ensure that medical personnel are aware of the material(s) involved and take precautions

to protect themselves.

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.

^{*}The full texts of the phrases are shown in Section 16.



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Eyes Irrigate copiously with clean fresh water for at least 15 minutes, holding the eyelids apart

and seek medical attention.

Skin Remove and isolate contaminated clothing and shoes. Clothing frozen to the skin should

be thawed before being removed. In case of contact with liquefied gas, thaw frosted parts

with lukewarm water.

Ingestion DO NOT INDUCE VOMITING! If swallowed, vomiting may occur spontaneously. If vomiting

occurs, keep head below hips to prevent aspiration into lungs. Rinse mouth thoroughly. Get

medical attention.

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

Overview Exposure to solvent vapor concentrations from the component solvents in excess of the

stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular

weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation

and soreness with possible reversible damage. See section 2 for further details.

Inhalation May cause drowsiness or dizziness.

Eyes Causes serious eye irritation.

Skin May be harmful in contact with skin. (Not adopted by US OSHA) Causes skin irritation.

Ingestion Harmful if swallowed.

5. Fire-fighting measures

5.1. Extinguishing media

Fire involving Tanks: Some of these materials, if spilled, may evaporate leaving a flammable residue. Some of these materials, if spilled, may evaporate leaving a flammable residue.

5.2. Special hazards arising from the substance or mixture

Carbon Monoxide and Carbon Dioxide

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

Do not spray on an open flame or other ignition source.

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

Pressurized container: Do not pierce or burn, even after use.

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



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5.3. Advice for fire-fighters

Wear positive pressure self-contained breathing apparatus (SCBA).

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Structural firefighters' protective clothing will only provide limited protection.

Some may burn but none ignite readily.

Containers may explode when heated.

Ruptured cylinders may rocket.

Vapors may cause dizziness or asphyxiation without warning.

Vapors from liquefied gas are initially heavier than air and spread along ground.

Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.

Fire may produce irritating, corrosive and/or toxic gases.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not touch or walk through spilled material.

Stop leak if you can do it without risk.

Do not direct water at spill or source of leak.

Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. If possible, turn leaking containers so that gas escapes rather than liquid.

Prevent entry into waterways, sewers, basements or confined areas.

Allow substance to evaporate.

Ventilate the area.

6.2. Environmental precautions

Do not allow spills to enter drains or watercourses.

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

Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit before re-entering.

As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Keep unauthorized personnel away.

Stay upwind.

Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).

Keep out of low areas.

Ventilate closed spaces before entering.



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7. Handling and storage

7.1. Precautions for safe handling

This product contains solvents. Solvent vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Areas of storage, preparation and application should be ventilated to prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentrations higher than the occupational exposure limits.

The requirements of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations apply if the flashpoint is between 21°C and 32°C.

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

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and electrical equipment are protected to the appropriate standard.

All sources of ignition (hot surfaces, sparks, open flames etc) should be excluded from areas of preparation and application. All electrical equipment (including torches) should be protected (Ex) to the appropriate standard.

The product may charge electrostatically. Always use earthing leads when pouring solvents and transferring product. Operators should wear clothing which does not generate static (at least 60% natural fiber) and antistatic footwear; floors should be of conducting type.

Incompatible materials: Strong oxidizing agents

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

7.3. Specific end use(s)

No data available.



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8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingestion	Source	Value
0000067-64-1	2-Propanone	OSHA	TWA 1000 ppm (2400 mg/m3)STEL 2400 mg/m3
		ACGIH	TWA: 250 ppmSTEL: 500 ppm Skin
		NIOSH	250 ppm (590 mg/m3) TWA
		Supplier	No Established Limit
0000074-98-6	Propane	OSHA	TWA 1000 ppm (1800 mg/m3)
		ACGIH	No Established Limit
		NIOSH	TWA 1000 ppm (1800 mg/m3)
		Supplier	No Established Limit
0000084-74-2	Dibutyl phthalate	OSHA	TWA 5 mg/m3
		ACGIH	TWA: 5 mg/m3R
	NIOSH	TWA 5 mg/m3	
	Supplier	No Established Limit	
0000106-97-8 Butane		OSHA	No Established Limit
		ACGIH	TWA: 600 ppmSTEL: 750 ppm
		NIOSH	TWA 800 ppm (1900 mg/m3)
		Supplier	No Established Limit
0000108-88-3	Toluene	OSHA	TWA 200 ppm C 300 ppm 500 ppm (10-minute maximum peak)STEL 150 ppm
		ACGIH	TWA: 20 ppmR
		NIOSH	TWA 100 ppm (375 mg/m3) ST 150 ppm (560 mg/m3)
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingestion	Source	Value			
0000067-64-1	2-Propanone	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;			
0000074-98-6	Propane	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;			
0000084-74-2	Dibutyl phthalate	OSHA	Select Carcinogen: No			
		NTP	Known: No; Suspected: No			



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		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;		
0000106-97-8	Butane	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;		
0000108-88-3	Toluene	OSHA	HA Select Carcinogen: No		
		NTP	Known: No; Suspected: No		
			Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;		

8.2. Exposure controls

Respiratory Not necessary where area is properly ventilated.

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.

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.

using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

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

9. Physical and chemical properties

Appearance Clear Colorless Aerosol
Odor Aromatic Hydrocarbon

Odor threshold Not Measured

pH NA
Melting point / freezing point (°C) NA

Initial boiling point and boiling range (°C) 67-69C 153-157F

Flash Point <23C <73F

Evaporation rate (Ether = 1) > 1 (n-Butyl acetate = 1)

Flammability (solid, gas) Flam. Gas 1;H220 Extremely flammable gas.

Upper/lower flammability or explosive limits

Lower Explosive Limit: 1%

Upper Explosive Limit: 11%



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Vapor pressure (Pa)

Vapor Density

Greater than 1

Specific Gravity

0.980

Solubility in Water

Partition coefficient n-octanol/water (Log Kow)

Auto-ignition temperature (°C)

Not Measured

Not Measured

Not Measured

Viscosity (cSt)

Not Measured

VOC %

86%

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid contact with open flame, sparks or hot surfaces.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Carbon Monoxide and Carbon Dioxide

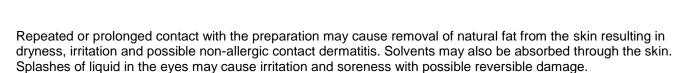
11. Toxicological information

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.



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2-butoxyethanol and its acetate are readily absorbed through the skin and will cause harmful effects on the blood.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
2-Propanone - (67-64-1)	2,000.00, Rat - Category: 4	2,000.00, Rabbit - Category: 4	76.00, Rat - Category: NA	No data available	No data available
Toluene - (108-88-3)	636.00, Rat - Category: 4	8,400.00, Rabbit - Category: NA	No data available	No data available	No data available
Propane - (74-98-6)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
Butane - (106-97-8)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
Dibutyl phthalate - (84-74-2)	8,000.00, Rat - Category: NA	20,860.00, Rabbit - Category: NA	No data available	No data available	No data available

Item	Category	Hazard	
Acute Toxicity (mouth)	4	Harmful if swallowed.	
Acute Toxicity (skin)	5	May be harmful in contact with skin. (Not adopted by US OSHA)	
Acute Toxicity (inhalation)		Not Applicable	
Skin corrosion/irritation	2	Causes skin irritation.	
Eye damage/irritation	2	Causes serious eye irritation.	
Sensitization (respiratory)		Not Applicable	
Sensitization (skin)		Not Applicable	
Germ toxicity		Not Applicable	
Carcinogenicity		Not Applicable	
Reproductive Toxicity	1B	May damage the unborn child. Suspected of damaging fertility.	
Specific target organ systemic toxicity (single exposure)	3	May cause drowsiness or dizziness.	
Specific target organ systemic Toxicity (repeated exposure)	2	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard		Not Applicable	



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12. Ecological information

12.1. 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
2-Propanone - (67-64-1)	100.00, Pimephales promelas	10.00, Daphnia magna	20.565 (72 hr), Ulva pertusa
Toluene - (108-88-3)	5.80, Oncorhynchus mykiss	19.60, Daphnia magna	Not Available
Propane - (74-98-6)	Not Available	Not Available	Not Available
Butane - (106-97-8)	6.00, Fish (Piscis)	Not Available	Not Available
Dibutyl phthalate - (84-74-2)	0.48, Lepomis macrochirus	2.99, Daphnia magna	0.21 (96 hr), Scenedesmus acutus

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 no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.



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13. Disposal considerations

13.1. Waste treatment methods

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

14. Transport information

14.1. UN number UN1950

14.2. UN proper shipping name Aerosols, flammable

14.3. Transport hazard class(es)

DOT (Domestic Surface Transportation) IMO / IMDG (Ocean Transportation)

DOT Proper Shipping UN1950, Aerosols, IMDG Proper Aerosols, flammable

Name flammable, 2.1, Shipping Name

DOT Hazard Class2.1IMDG Hazard ClassNot ApplicableDOT Label2.1Sub ClassNot Applicable

UN / NA Number UN1950

DOT Packing Group Not Applicable IMDG Packing Group Not Applicable

CERCLA/DOT RQ 71 gal. / 588 lbs.

14.4. Packing group Not Applicable

14.5. Environmental hazards

IMDG Marine Pollutant: Yes (Butane)

14.6. Special precautions for user

Not Applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable



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15. Regulatory information

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

regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

WHMIS Classification B2 D2A

US EPA Tier II Hazards Fire: Yes

Sudden Release of Pressure: Yes

Reactive: No

Immediate (Acute): Yes Delayed (Chronic): Yes

EPCRA 311/312 Chemicals and RQs (lbs):

2-Propanone (5,000.00)

Dibutyl phthalate (10.00)

Toluene (1,000.00)

EPCRA 302 Extremely Hazardous:

(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals:

Dibutyl phthalate

Toluene

Proposition 65 - Carcinogens (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%):

Dibutyl phthalate

Toluene

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

Dibutyl phthalate

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

Dibutyl phthalate

N.J. RTK Substances (>1%):

2-Propanone

Butane

Dibutyl phthalate



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Propane

Toluene

Penn RTK Substances (>1%):

2-Propanone

Butane

Dibutyl phthalate

Propane

Toluene

16. Other information

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:

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H305 May be harmful if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H320 Causes eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness and dizziness.

H360 May damage fertility or the unborn child.

H361 Suspected of damaging fertility or the unborn child.



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H362 May cause harm to breast-fed children.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

This is the first revision of this SDS format, changes from previous revision not applicable.

This Safety data Sheet was prepared using information provided by/obtained from the Dodge Chemical Company Inc. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to the product. The Dodge Chemical Company, Inc. expressly disclaim all expressed or implied warranty and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other processes as to the accuracy of and/or sufficiency of such information. This Safety Data Sheet may not be changed or altered in any way without the expressed knowledge and permission of The Dodge Chemical Company, Inc.

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