

Safety Data Sheet

Version 1.1

Revision Date 03/24/2022

SDS Number 300000078629

Print Date 02/14/2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Dynasolve® M-35

Product Use Description : Epoxy flushing solvent

Manufacturer/Importer/Distributor : Versum Materials US, LLC
8555 South River Parkway
Tempe, AZ 85284-2601
Exporter EIN No. 47-5632014
www.emdgroup.com/electronics

Telephone : 800 837 2724

Emergency telephone number (24h) : 1-800-424-9300
(+1) 703-741-5970 (CHEMTREC)

2. HAZARDS IDENTIFICATION

GHS classification

Serious Eye Damage/Eye Irritation - Category 2A

GHS label elements

Hazard pictograms/symbols



Signal Word: Warning

Hazard Statements:

H319: Causes serious eye irritation.

Precautionary Statements:

Prevention : P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response : P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several

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minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 :If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Ethylene di(acetate)	111-55-7	40% - 60 %
Propylene carbonate	108-32-7	40% - 60 %

4. FIRST AID MEASURES

General advice	: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
Eye contact	: Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.
Skin contact	: Wash off immediately with plenty of water for at least 20 minutes.
Ingestion	: Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.
Inhalation	: Treat symptomatically. Move to fresh air.
Most important symptoms/effects - acute and delayed	: Repeated and/or prolonged exposures may result in : Adverse skin effects (such as defatting, rash or irritation) Eye disease.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Dry sand. Limestone powder.
Specific hazards	: Incomplete combustion may form carbon monoxide. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.
Special protective equipment	: Use personal protective equipment. Wear self contained breathing apparatus

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for fire-fighters

for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures : Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

Environmental precautions : Construct a dike to prevent spreading.

Methods for cleaning up : Approach suspected leak areas with caution. Call Emergency Response number for advice. Place in appropriate chemical waste container.

Additional advice : If possible, stop flow of product.

7. HANDLING AND STORAGE

Handling

Avoid contact with eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Provide readily accessible eye wash stations and safety showers.

Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protective equipment

Respiratory protection : Wear appropriate respirator when ventilation is inadequate.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Full face shield with goggles underneath.

Skin and body protection : Long sleeve shirts and trousers without cuffs.

Special instructions for protection and hygiene : Wash hands at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid. Colorless - Light yellow.
Odor	: No data available.
Odor threshold	: No data available.
pH	: No data available.
Melting point/range	: No data available.
Boiling point/range	: 421 °F (216 °C)
Flash point	: 220 °F (104.5 °C) Pensky-Martens Closed Cup
Evaporation rate	: No data available.
Flammability (solid, gas)	: Refer to product classification in Section 2
Upper/lower explosion/flammability limit	: No data available.
Vapor pressure	: 0.06 mmHg
Water solubility	: Miscible with water.
Relative vapor density	: No data available.
Relative density	: 1.15 (water = 1)
Partition coefficient: n-octanol/water [log Kow]	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: No data available.
Density	: No data available. : 71.792 lb/ft3 (1.15 g/cm3)

10. STABILITY AND REACTIVITY

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Chemical Stability	: Stable under normal conditions.
Conditions to avoid	: No data available.
Materials to avoid	: Oxidizing agents. Strong acids and strong bases.
Hazardous decomposition products	: Carbon monoxide. Carbon dioxide (CO2).
Possibility of hazardous Reactions/Reactivity	: No data available.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Likely routes of exposure

Effects on Eye	: Causes eye irritation.
Effects on Skin	: May cause skin irritation.
Inhalation Effects	: No data available.
Ingestion Effects	: No data available.
Symptoms	: No data available.

Acute toxicity

Acute Oral Toxicity : No data is available on the product itself.

Acute Oral Toxicity - Components

Ethylene di(acetate)	LD50 : > 5,000 mg/kg	Species : Rat
Propylene carbonate	LD50 : > 5,000 mg/kg	Species : Rat

Inhalation : No data is available on the product itself.

Acute Dermal Toxicity : No data is available on the product itself.

Acute Dermal Toxicity - Components

Ethylene di(acetate)	LD50 : > 2,000 mg/kg	Species : Rabbit
Propylene carbonate	LD50 : > 2,000 mg/kg	Species : Rabbit

Skin corrosion/irritation : May cause skin irritation.

Serious eye damage/eye irritation : Irritating to eyes.

Sensitization. : No data available.

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Chronic toxicity or effects from long term exposures

Carcinogenicity	: No data available.
Reproductive toxicity	: No data is available on the product itself.
Germ cell mutagenicity	: No data is available on the product itself.
Specific target organ systemic toxicity (single exposure)	: No data available.
Specific target organ systemic toxicity (repeated exposure)	: No data available.
Aspiration hazard	: No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Repeated and/or prolonged exposures may result in : Adverse skin effects (such as defatting, rash or irritation), Eye disease.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity	: No data is available on the product itself.	
Toxicity to fish - Components		
Ethylene di(acetate)	LC50 (96 h) : 40.45 mg/l	Species : Fathead minnow (Pimephales promelas).
Propylene carbonate	LC50 (96 h) : > 1,000 mg/l	
Species : Carp (Cyprinus carpio).		
Toxicity to daphnia - Components		
Ethylene di(acetate)	EC 50 (48 h) : > 116.3 mg/l	Species : Daphnia.
Propylene carbonate	EC 50 (48 h) : > 1,000 mg/l	Species : Daphnia.
Toxicity to other organisms	: No data available.	

Persistence and degradability

Biodegradability	: The product is expected to be biodegradable.
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Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

Bioaccumulation - Components

Ethylene di(acetate)

Propylene carbonate

Potential to bioaccumulate is low.

Negligible bioaccumulation potential.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : Contact supplier if guidance is required.

Contaminated packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

TDG

Not dangerous goods

Further Information

Not classified as dangerous in the meaning of transport regulations. The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact customer service.

15. REGULATORY INFORMATION

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Toxic Substance Control Act (TSCA) 12(b) Component(s):

None.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification

Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level

None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

16. OTHER INFORMATION

HMIS Rating

Health : 2
Flammability : 1
Physical hazard : 0

Prepared by : Product Compliance Department

Telephone : 800 837 2724

Preparation Date : 02/14/2023