

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® CU-7

Version
1.0

Revision Date:
10/11/2024

SDS Number:
70MDGM661382

Date of first issue:
10/11/2024

SECTION 1. IDENTIFICATION

Product name : Dynasolve® CU-7

Product number : 661382

Manufacturer or supplier's details

Company : 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 : 1-800-424-9300 CHEMTREC (USA) 1-703-741-5970
CHEMTREC (International) 24 Hours/day; 7 Days/week

Recommended use of the chemical and restrictions on use

Recommended use : Semiconductor Processing
Polyimide Removal

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 4

Skin corrosion : Category 1

Serious eye damage : Category 1

Reproductive toxicity : Category 1B

Specific target organ toxicity : Category 3 (Respiratory system)
- single exposure

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H227 Combustible liquid.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H360 May damage fertility or the unborn child.

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Precautionary Statements

:

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 mist or vapors.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Methyl-2-pyrrolidinone, 1-	872-50-4	>= 70 - < 90
Diethyleneglycolamine	929-06-6	>= 20 - < 30

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Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- | | | |
|---|---|---|
| General advice | : | First aider needs to protect himself.
Show this material safety data sheet to the doctor in attendance. |
| If inhaled | : | fresh air. Call in physician. |
| In case of skin contact | : | Wash off immediately with plenty of water for at least 15 minutes.
Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Call a physician immediately. |
| In case of eye contact | : | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical treatment immediately.
Remove contact lenses. |
| If swallowed | : | make victim drink water (two glasses at most), avoid vomiting (risk of perforation).
Call a physician immediately.
Do not attempt to neutralise.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : | Irritation and corrosion
Cough
Shortness of breath
Risk of blindness! |
| Notes to physician | : | Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. |

SECTION 5. FIRE-FIGHTING MEASURES

- | | | |
|------------------------------|---|---|
| Suitable extinguishing media | : | Water
Dry powder
Foam
Carbon dioxide (CO2) |
| | | Water |

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		Dry powder Foam Carbon dioxide (CO2)
Unsuitable extinguishing media	:	For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards during fire fighting	:	Combustible. Fire may cause evolution of: Nitrogen oxides (NOx) Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
Further information	:	Prevent fire extinguishing water from contaminating surface water or the ground water system. Suppress (knock down) gases/vapors/mists with a water spray jet.
Special protective equipment for fire-fighters	:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8. If possible, stop flow of product.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	:	Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

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SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
- Advice on safe handling : Emergency showers and eye wash stations should be readily accessible. Empty containers may contain residue which can be dangerous – do not pressurize, cut, weld, drill, grind and also do not expose such containers to heat, flame, sparks, or other ignition sources. Observe label precautions.
- Conditions for safe storage : Store in original container.
- Further information on storage conditions : Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Tightly closed. Risks from decomposition products: see section 10

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methyl-2-pyrrolidinone, 1-	872-50-4	TWA	15 ppm 60 mg/m ³	US WEEL
		STEL	30 ppm 120 mg/m ³	US WEEL

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Methyl-2-pyrrolidinone, 1-	872-50-4	5-Hydroxy-N-methyl-2-pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

- Engineering measures** : Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7

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Personal protective equipment

Respiratory protection : Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Respirator with filter for organic vapor
Wear appropriate respirator when ventilation is inadequate. required when vapours/aerosols are generated.

Hand protection

Remarks : 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.
Solvent-resistant gloves 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.

Protective measures : Wear suitable protective clothing, gloves and eye/face protection.

Eye protection : Tightly fitting safety goggles

Body Protection : Rubber or plastic boots
Flame retardant protective clothing
If there is any possibility of direct contact or exposure, wear chemical resistant protective clothing.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : Colorless - Light yellow.

Odor : amine-like

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Odor Threshold	:	No data available
pH	:	< 12 alkaline
Melting point/range	:	No data available
Boiling point/boiling range	:	401 °F / 205 °C
Flammability (solid, gas)	:	Remarks: Combustible.
Decomposition temperature	:	No data available
Flash point	:	92 °C Method: Pensky-Martens closed cup
Auto-ignition temperature	:	Information on components: Methyl-2-pyrrolidinone, 1- 473 °F / 245 °C (1,013 hPa) Method: DIN 51794
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	0.4 hPa
Relative vapor density	:	No data available
Relative density	:	(water = 1) 1.033
Density	:	1.033 g/cm ³
Solubility(ies) Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	No data available
Evaporation rate	:	No data available
Viscosity	:	No data available

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Explosive properties : Not classified as explosive.

Oxidizing properties : none

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Chemical stability : No data available

Possibility of hazardous reactions : no information available

Conditions to avoid : Strong heating.

Incompatible materials : Organic acids
Mineral acids.
Oxidizing agents
sodium hypochlorite
Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.
Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Hazardous decomposition products : Hazardous combustion products:
Nitric acid
Ammonia
Nitrogen oxides (NO_x)
Nitrogen oxide can react with water vapors to form corrosive nitric acid.
Carbon monoxide
Carbon dioxide (CO₂)
in the event of fire: See section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Eye contact
Skin contact

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Acute toxicity

Product:

- Acute oral toxicity : Acute Toxicity Estimate (ATE): 3,933 mg/kg
Method: Calculation method
- Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
- Acute inhalation toxicity : Symptoms: mucosal irritations, Cough, Shortness of breath,
Possible damages:, damage of respiratory tract
- Acute dermal toxicity : Symptoms: Causes severe burns.

Components:

Methyl-2-pyrrolidinone, 1-:

- Acute oral toxicity : LD50 (Rat, male and female): 4,150 mg/kg
Method: OECD Test Guideline 401
Remarks: (ECHA)
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.1 mg/l
Exposure time: 4 h
Test atmosphere: aerosol
Method: OECD Test Guideline 403
GLP: yes
Remarks: (ECHA)
- Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
Remarks: (ECHA)
- Assessment: The substance or mixture has no acute dermal toxicity

Diethyleneglycolamine:

- Acute oral toxicity : LD50 (Rat, male and female): ca. 3,400 mg/kg
Method: OECD Test Guideline 401
Remarks: (Source: ECHA)
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 3,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: (Source: ECHA)

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Skin corrosion/irritation

Product:

No data available

Components:

Methyl-2-pyrrolidinone, 1-:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Remarks : (ECHA)

Diethyleneglycolamine:

Species : Rabbit
Result : Causes burns.
Remarks : (ECHA)

Serious eye damage/eye irritation

Product:

Remarks : Risk of blindness!

Components:

Methyl-2-pyrrolidinone, 1-:

Species : Rabbit
Result : irritating
Method : OECD Test Guideline 405
Remarks : (ECHA)

Diethyleneglycolamine:

Species : Rabbit
Result : Irreversible effects on the eye
Remarks : (ECHA)

Respiratory or skin sensitization

Product:

No data available

Components:

Methyl-2-pyrrolidinone, 1-:

Routes of exposure : Skin
Species : Mouse
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.
Remarks : (ECHA)

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Test Type : Patch test:
Routes of exposure : Skin
Species : Human
Result : negative
Remarks : (IUCLID)

Germ cell mutagenicity

Product:

No data available

Components:

Methyl-2-pyrrolidinone, 1-:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Remarks: (ECHA)

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
Remarks: (ECHA)

Test Type: unscheduled DNA synthesis assay
Test system: mammalian cells
Method: OECD Test Guideline 482
Result: negative
GLP: yes
Remarks: (ECHA)

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Remarks: (ECHA)

Test Type: Chromosome aberration test
Species: Chinese hamster (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 475
Result: negative
GLP: yes

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Remarks: (ECHA)

Carcinogenicity

Product:

No data available

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

No data available

Components:

Methyl-2-pyrrolidinone, 1-:

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

STOT-single exposure

Product:

No data available

Components:

Methyl-2-pyrrolidinone, 1-:

Target Organs : Respiratory system
Assessment : May cause respiratory irritation.

STOT-repeated exposure

Product:

No data available

Aspiration toxicity

Product:

No data available

Further information

Product:

Remarks : Other dangerous properties can not be excluded.
This substance should be handled with particular care.
The product has not been tested. The information is derived

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from the properties of the individual components.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Methyl-2-pyrrolidinone, 1-:

- | | | |
|--|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Remarks: (ECHA) |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 24 h
Remarks: (ECHA) |
| Toxicity to algae/aquatic plants | : | ErC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l
Exposure time: 72 h |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 12.5 mg/l
End point: reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 211
GLP: yes |
| Toxicity to microorganisms | : | EC50 (activated sludge): > 600 mg/l
Exposure time: 0.5 h
Method: ISO 8192 |

Persistence and degradability

Components:

Methyl-2-pyrrolidinone, 1-:

- | | | |
|---------------------------------|---|--|
| Biodegradability | : | Inoculum: activated sludge
Concentration: 100 mg/l
Result: Readily biodegradable.
Biodegradation: 73 %
Exposure time: 28 d |
| Biochemical Oxygen Demand (BOD) | : | 1,100 mg/g
Incubation time: 5 d
Remarks: (Lit.) |
| Chemical Oxygen Demand | : | 1,600 mg/g |

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(COD) Remarks: (Lit.)
BOD/ThOD : 99 %
Remarks: (IUCLID)

Bioaccumulative potential

Components:

Methyl-2-pyrrolidinone, 1-:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.
Partition coefficient: n-octanol/water : log Pow: -0.46 (77 °F / 25 °C)
Method: OECD Test Guideline 107
Remarks: Bioaccumulation is not expected.

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information : No ecological testing was carried out on the preparation.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
Contaminated packaging : When discarding an empty container, the contaminated to the inside is removed completely and it discards according to your local regulations.

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SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3267
Proper shipping name : Corrosive liquid, basic, organic, n.o.s.
(Diethyleneglycolamine)
Class : 8
Packing group : III
Labels : Corrosive
Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852

IMDG-Code

UN number : UN 3267
Proper shipping name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(Diethyleneglycolamine)
Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR Road

UN/ID/NA number : UN 3267
Proper shipping name : Corrosive liquid, basic, organic, n.o.s.
(Diethyleneglycolamine)
Class : 8
Packing group : III
Labels : CORROSIVE
ERG Code : 153
Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Methyl-2-pyrrolidinone, 1-	872-50-4	>= 70 - < 90 %
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Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

Methyl-2-pyrrolidinone, 1-	872-50-4
Diethyleneglycolamine	929-06-6

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Methyl-2-pyrrolidinone, 1-	872-50-4
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TSCA list

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

Methyl-2-pyrrolidinone, 1-	872-50-4
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The ingredients of this product are reported in the following inventories:

TSCA : All substance listed on the TSCA Active Inventory

DSL : All components of this product are on the Canadian DSL

SECTION 16. OTHER INFORMATION

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN