

Safety Data Sheet

Version 3.0

Revision Date 11/15/2023

SDS Number 300000078623

Print Date 12/04/2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Dynasolve[®] 225

Product Use Description : Semiconductor Processing, Silicone Remover

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

Flammable liquids - Category 2
Serious Eye Damage/Eye Irritation - Category 2
Germ Cell Mutagenicity - Category 1B
Carcinogenicity - Category 1B
Aspiration Hazard - Category 1

GHS label elements

Hazard pictograms/symbols



Signal Word: Danger

Hazard Statements:

H225: Highly flammable liquid and vapor.
H304: May be fatal if swallowed and enters airways.
H319: Causes serious eye irritation.
H340: May cause genetic defects.

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H350:May cause cancer.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233:Keep container tightly closed.
P240:Ground and bond container and receiving equipment.
P241:Use explosion-proof electrical, ventilating and lighting equipment.
P242:Use non-sparking tools.
P243:Take action to prevent static discharges.
P264:Wash face, hands and any exposed skin thoroughly after handling.
P280:Wear protective gloves/protective clothing/eye protection/face protection.
P281:Use personal protective equipment as required.

Response

: P303+P361+P353 :IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 :IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 :IF exposed or concerned: Get medical advice/attention.
P337+P313 :If eye irritation persists: Get medical advice/attention.
P370+P378 :In case of fire, use recommended extinguishing media for extinction.

Storage

: P403+P235:Store in a well-ventilated place. Keep cool.
P405:Store locked up.

Disposal

: P501:Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Hazards not otherwise classified

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Naphtha (petroleum), light alkylate	64741-66-8	60% - 80 %
Benzenesulfonic acid, C10-16-alkyl derivs	68584-22-5	10% - 20 %

Concentration is nominal. For the exact product composition, please refer to technical specifications.

4. FIRST AID MEASURES

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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	: Hold eyelids apart, initiate and maintain gentle and continuous irrigation care is not promptly available, continue to irrigate for one hour.
Skin contact	: Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing.
Ingestion	: Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Prevent aspiration of vomit. Turn victim's head to the side.
Inhalation	: 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. If unconscious place in recovery position and seek medical advice. Move to fresh air.
Most important symptoms/effects - acute and delayed	: Burning/irritation in the eyes.

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. Flash back possible over considerable distance. Fire or intense heat may cause violent rupture of packages. Burning produces noxious and toxic fumes. May form explosive mixtures in air. Downwind personnel must be evacuated.
Special protective equipment for fire-fighters	: Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
Further information	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations., Do not allow run-off from firefighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions,	: Remove all sources of ignition. Use self-contained breathing apparatus and
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Protective Equipment, and Emergency Procedures	chemically protective clothing. Evacuate personnel to safe areas.
Environmental precautions	: Local authorities should be advised if significant spillages cannot be contained. Prevent spilled product from entering streams or drinking water supplies. Shut off or remove all ignition sources. Construct a dike to prevent spreading.
Methods for cleaning up	: Absorb with inert absorbent materials such as: Dry sand. Vermiculite. Activated charcoal. 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 skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. See "Flammable and Combustible Liquid Code" NFPA No. 30, National Fire Protection Association, Boston, MA. 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. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat and sources of ignition. Keep away from oxidizers.

Technical measures/Precautions

Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Eye washes and showers for emergency use.
Provide readily accessible eye wash stations and safety showers.
Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

Personal protective equipment

Respiratory protection	: Wear appropriate respirator when ventilation is inadequate.
Hand protection	: Butyl rubber gloves are recommended. 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.

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Skin and body protection	: Impervious clothing. Rubber or plastic boots. Slicker Suit.
Environmental exposure controls	: Local authorities should be advised if significant spillages cannot be contained. Prevent spilled product from entering streams or drinking water supplies. Shut off or remove all ignition sources.
Special instructions for protection and hygiene	: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid Amber.
Odour	: Petroleum-like.
Odor threshold	: No data available.
pH	: Acidic.
Melting point/range	: No data available.
Boiling point/boiling range	: > 235 °F (> 112.78 °C)
Flash point	: 48 °F (9 °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.
Vapour pressure	: 22.56 mmHg
Water solubility	: Insoluble.
Relative vapor density	: No data available.
Relative density	: 0.81 (water = 1)
Partition coefficient: n-octanol/water	: No data available.

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Auto-ignition temperature : No data available.

Decomposition temperature : No data available.

Viscosity : No data available.

Density : No data available.
: 50.567 lb/ft³ (0.81 g/cm³)

10. STABILITY AND REACTIVITY

Chemical Stability : Stable under normal conditions.

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : Bases.
Oxidizing agents.

Hazardous decomposition products : Hazardous combustion products:
Carbon oxides.
Sulphur oxides.

Possibility of hazardous Reactions/Reactivity : No data available.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Likely routes of exposure

Effects on Eye : Eye may become red, tear, and become painful.

Effects on Skin : May cause defatting of the skin, but is not an irritant.

Inhalation Effects : Remove from exposure and keep at rest.

Ingestion Effects : May be fatal if swallowed and enters airways.

Symptoms : Burning/irritation in the eyes.

Acute toxicity

Acute Oral Toxicity : Not classified for acute toxicity based on available data.

Acute Oral Toxicity - Components

Naphtha (petroleum), light alkylate	LD50 : > 5,000 mg/kgOECD Test Guideline 401	Species : Rat
Benzenesulfonic acid, C10-16-alkyl	LD50 : > 5,000 mg/kgOECD	Species : Rat

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derivs

Test Guideline 401

Inhalation : No data is available on the product itself.

Inhalation - Components

Naphtha (petroleum), light alkylate

LC50 (4 h) : > 5,310 - 5,910 mg/l

Species : Rat

OECD Test Guideline 403

Benzenesulfonic acid, C10-16-alkyl
derivs

LC50 (4 h) : > 1.9 mg/l
OECD Test Guideline 403

Species : Rat

Acute Dermal Toxicity : ATEmix : 2,857.14 mg/kg

Skin corrosion/irritation : No skin irritation.

Serious eye damage/eye
irritation : Causes serious eye damage.

Sensitization. : No data available.

Chronic toxicity or effects from long term exposures

Carcinogenicity : May cause cancer

Reproductive toxicity : No data is available on the product itself.

Germ cell mutagenicity : May cause genetic defects.

Specific target organ systemic
toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ systemic
toxicity (repeated exposure) : No data available.

Aspiration hazard : No data available.

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity : The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Toxicity to fish - Components

Benzenesulfonic acid, C10-16-alkyl

LC50 (96 h) : > 10,000

Species : Sheepshead

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derivs

mg/IOECD Test Guideline
203

minnow (Cyprinodon
variegatus)

Toxicity to daphnia - Components

Benzenesulfonic acid, C10-16-alkyl
derivs

EC 50 (48 h) : > 1,000
mg/IOECD Test Guideline
202

Species : Daphnia
magna

Toxicity to other organisms : No data available.

Toxicity to other organisms - Components

Benzenesulfonic acid, C10-16-alkyl derivs : EC 50 (8 h): 3,200 - 5,000 mg/l Species : Activated sewage sludge.

Persistence and degradability

Biodegradability : No data is available on the product itself.

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

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

UN/ID No. : UN1993
Proper shipping name : Flammable liquids, n.o.s., (Naphtha (petroleum), light alkylate, Benzenesulfonic acid, C10-16-alkyl derivs)
Class or Division : 3
Packing group : II
Label(s) : 3
Marine Pollutant : No

IATA

UN/ID No. : UN1993
Proper shipping name : Flammable liquid, n.o.s., (Naphtha (petroleum), light alkylate, Benzenesulfonic acid, C10-16-alkyl derivs)
Class or Division : 3
Packing group : II

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Label(s) : 3
Marine Pollutant : No

IMDG

UN/ID No. : UN1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S., (Naphtha (petroleum), light alkylate, Benzenesulfonic acid, C10-16-alkyl derivs)
Class or Division : 3
Packing group : II
Label(s) : 3
Marine Pollutant : No

TDG

UN/ID No. : UN1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S., (Naphtha (petroleum), light alkylate, Benzenesulfonic acid, C10-16-alkyl derivs)
Class or Division : 3
Packing group : II
Label(s) : 3
Marine Pollutant : No

Further Information

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

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

None.

CERCLA Reportable Quantity (RQ):

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.

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

Flammable (gases, aerosols, liquids, or solids) Serious eye damage or eye irritation Germ Cell Mutagenicity
Carcinogenicity Aspiration Hazard

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

None.

16. OTHER INFORMATION

Prepared by : Product Compliance Department

Telephone : 800 837 2724

Preparation Date : 12/04/2023
