

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

## SECTION 1. IDENTIFICATION

Product name : Dynasolve® 218

Product number : 661358

### 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 : Silicone Remover

## SECTION 2. HAZARDS IDENTIFICATION


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

Flammable liquids : Category 4

Eye irritation : Category 2A

Aspiration hazard : Category 1

### GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H227 Combustible liquid.  
H304 May be fatal if swallowed and enters airways.  
H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P331 Do NOT induce vomiting.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

#### Storage:

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)
Naphtha (petroleum), hydrotreated heavy	64742-48-9	$\geq 70 - < 90$
Benzenesulfonic acid, C10-16-alkyl derivs	68584-22-5	$\geq 30 - < 50$

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

If inhaled : fresh air. Consult doctor if feeling unwell.

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.

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.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

---

If swallowed : caution if victim vomits. Risk of aspiration! Keep airways free.  
Call a physician immediately.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
Pulmonary failure possible after aspiration of vomit.  
If accidentally swallowed obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed : irritant effects

Notes to physician : No information available.

---

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water  
Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)

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:  
Carbon oxides  
Sulfur oxides  
Development of hazardous combustion gases or vapours possible in the event of fire.

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.

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.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

## 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.

## 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 containers tightly closed in a dry, cool and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Risks from decomposition products: see section 10 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
Naphtha (petroleum), hydrotreated heavy	64742-48-9	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

		TWA	400 ppm 1,600 mg/m3	OSHA P0

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

See section 7

### Personal protective equipment

**Respiratory protection** : Respirator with filter for organic vapor  
Wear appropriate respirator when ventilation is inadequate.  
required when vapours/aerosols are generated.

**Hand protection**

**Remarks** : 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** : Safety glasses

**Body Protection** : 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.  
Change contaminated clothing. Wash hands after working with substance.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : liquid

**Color** : amber

**Odor** : No data available

**Odor Threshold** : No data available

**pH** : acidic

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

---

Melting point	:	No data available
Boiling point/boiling range	:	399 °F / 204 °C
Flammability (solid, gas)	:	Remarks: Combustible.
Decomposition temperature	:	No data available
Flash point	:	73 °C Method: Pensky-Martens closed cup
Auto-ignition temperature	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	(water = 1) 1.0001
Density	:	1.0001 g/cm <sup>3</sup>
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Evaporation rate	:	No data available
Viscosity	:	No data available
Explosive properties	:	Not classified as explosive.
Oxidizing properties	:	none

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

---

## 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	:	Bases Oxidizing agents
Hazardous decomposition products	:	in the event of fire: See section 5.

---

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Eye contact  
Skin contact

### Acute toxicity

#### **Product:**

Acute inhalation toxicity : Symptoms: Possible symptoms:, mucosal irritations

#### **Components:**

#### **Naphtha (petroleum), hydrotreated heavy:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Remarks: (External SDS)

Acute inhalation toxicity : LC50 (Rat): > 6.98 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour  
Remarks: (External SDS)

Symptoms: Irritation symptoms in the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

Remarks: (External SDS)

## **Benzenesulfonic acid, C10-16-alkyl derivs:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Remarks: (in analogy to similar compounds)  
(ECHA)

Acute inhalation toxicity : Assessment: Toxic effects cannot be excluded

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: (in analogy to similar compounds)  
(ECHA)

## **Skin corrosion/irritation**

### **Product:**

No data available

### **Components:**

#### **Naphtha (petroleum), hydrotreated heavy:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : slight irritation

#### **Benzenesulfonic acid, C10-16-alkyl derivs:**

Species : Rabbit  
Exposure time : 4 h  
Method : US-EPA  
Result : No skin irritation  
GLP : yes  
Remarks : (in analogy to similar compounds)  
(ECHA)

## **Serious eye damage/eye irritation**

### **Product:**

No data available

### **Components:**

#### **Naphtha (petroleum), hydrotreated heavy:**

Species : Rabbit  
Result : No eye irritation  
Remarks : (External SDS)



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

---

## **Benzenesulfonic acid, C10-16-alkyl derivs:**

Species : Rabbit  
Result : irritating  
Method : OECD Test Guideline 405  
GLP : yes  
Remarks : (in analogy to similar compounds)  
(ECHA)

## **Respiratory or skin sensitization**

### **Product:**

No data available

## **Germ cell mutagenicity**

### **Product:**

No data available

## **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

## **STOT-single exposure**

### **Product:**

No data available

## **STOT-repeated exposure**

### **Product:**

No data available

## **Aspiration toxicity**

### **Product:**

No data available

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

## Components:

### Naphtha (petroleum), hydrotreated heavy:

Aspiration hazard

## Further information

### Product:

Remarks : Handle in accordance with good industrial hygiene and safety practice  
Other dangerous properties can not be excluded.  
The product has not been tested. The information is derived from the properties of the individual components.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### Naphtha (petroleum), hydrotreated heavy:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 0.17 mg/l  
Exposure time: 96 h  
Remarks: No toxicity at the limit of solubility.  
(External SDS)

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.31 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Remarks: No toxicity at the limit of solubility.  
(External SDS)

##### Benzenesulfonic acid, C10-16-alkyl derivs:

Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: (in analogy to similar compounds)  
(ECHA)

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: US-EPA  
GLP: yes  
Remarks: (in analogy to similar compounds)

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

(ECHA)

## Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

## Persistence and degradability

### Components:

#### **Naphtha (petroleum), hydrotreated heavy:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 10 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

## Bioaccumulative potential

No data available

## 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.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

---

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### 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 : NA 1993  
Proper shipping name : Combustible liquid, n.o.s.  
(Naphtha (petroleum), hydrotreated heavy)  
Class : CBL  
Packing group : III  
Labels : NONE  
ERG Code : 128  
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.

---

## 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** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

## 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

No components are subject to the Massachusetts Right to Know Act.

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### 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

Revision Date : 10/11/2024

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.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dynasolve® 218

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661358

Date of first issue:  
10/11/2024

---

US / EN