

# SAFETY DATA SHEET

## TMC-367E Engineered Fluid

### SECTION 1: IDENTIFICATION

#### 1.1. Product identifier:

**Trade name:** TMC-367E Engineered Fluid  
**Other names / Synonyms:** 1,2 trans-dichloroethylene  
**Product no.:** 2504E, 2504E-B, 2504E-2.2, 2504E-10, 2504E-50, 2504E-550

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

**Relevant identified uses of the substance or mixture:** Cleaning Agent, Vapor Degreasing Agent  
**Uses advised against:** Restricted to professional users.  
 None known.

#### 1.3. Details of the supplier of the safety data sheet:

**Company and address:** TMC Industries, Inc.  
 1423 Mill Lane  
 Waconia, Minnesota 55387  
 USA  
 TF: +1 (800) 772-8179  
 www.tmcindustries.com

**Contact person:** Nick Hansen  
**E-mail:** sales@tmcindustries.com  
**SDS date:** 10/1/2025  
**SDS Version:** 6.0  
**Date of previous version:** 12/23/2024 (5.0)

#### 1.4. ▼ Emergency telephone number:

VeolocityEHS 1-800-255-3924 within the US, Canada, Puerto Rico and the U.S. Virgin Islands. If outside those areas, call 1-813-248-0585 (Contract#: MIS8157133).

### SECTION 2: HAZARD(S) IDENTIFICATION

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### 2.1. Classification of the substance or mixture:

Acute Tox. 4; H302, Harmful if swallowed.  
 Skin Irrit. 2; H315, Causes skin irritation.  
 Eye Irrit. 2B; H320, Causes eye irritation  
 Acute Tox. 4; H332, Harmful if inhaled.  
 STOT SE 3; H336, May cause drowsiness or dizziness.  
 Aquatic Chronic 3; H412,

#### 2.2. Label elements:

**Hazard pictogram(s):**



**Signal word:**

Warning

**Hazard statement(s):**

Harmful if swallowed or if inhaled. (H302+H332)



Causes skin irritation. (H315)  
Causes eye irritation (H320)  
May cause drowsiness or dizziness. (H336)  
Harmful to aquatic life with long lasting effects. (H412)

#### Precautionary statement(s):

▼ **General:** Not applicable.

**Prevention:** Avoid breathing mist/vapour. (P261)  
Wash hands and exposed skin thoroughly after handling. (P264)  
Use only outdoors or in a well-ventilated area. (P271)  
Avoid release to the environment. (P273)  
Wear eye protection/protective gloves/protective clothing. (P280)

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340)  
Call a POISON CENTER/doctor if you feel unwell. (P312)  
If eye irritation persists: Get medical advice/attention. (P337+P313)  
IF ON SKIN: Call a doctor if you feel unwell. (P302+P312)

**Storage:** Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

**Disposal:** Refer to manufacturer or supplier for information on recovery or recycling. (P502)

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances:

Not applicable. This product is a mixture.

#### 3.2. Mixtures:

| Product/substance                | Identifiers           | % w/w  | Classification  | Note |
|----------------------------------|-----------------------|--------|---|------|
| 1,2 trans-dichloroethylene       | CAS No.: 156-60-5     | 40-50% | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>Acute Tox. 4, H332<br>STOT SE 3, H336 |      |
| Proprietary Fluorinated Compound | CAS No.: Confidential | 50-60% | Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320<br>STOT SE 3, H336                     |      |

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information:

-

### SECTION 4: FIRST-AID MEASURES

#### 4.1. Description of first aid measures:

**General information:** If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).  
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.



|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Upon breathing difficulties or irritation of the respiratory tract: Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance. |
| <b>Skin contact:</b> | IF ON SKIN: Wash with plenty of water and soap.<br>Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.<br>If skin irritation occurs: Get medical advice/attention.  |
| <b>Eye contact:</b>  | If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.  |
| <b>Ingestion:</b>    | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.<br>Rinse mouth.  |
| <b>Burns:</b>        | Not applicable.  |

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.  
Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed:

If eye irritation persists: Get medical advice/attention.

#### Information to medics:

Bring this safety data sheet or the label from this product.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media:

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.  
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

#### 5.2. Special hazards arising from the substance or mixture:

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.  
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:  
Halogenated compounds  
Carbon oxides (CO / CO<sub>2</sub>)

#### 5.3. Advice for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures:

Avoid direct contact with spilled substances.  
Ensure adequate ventilation, especially in confined areas.



Avoid inhalation of vapours from spilled material.  
Contaminated areas may be slippery.

## 6.2. Environmental precautions:

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

## 6.3. Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

## 6.4. Reference to other sections:

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

# SECTION 7: HANDLING AND STORAGE

## 7.1. Precautions for safe handling:

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

## 7.2. Conditions for safe storage, including any incompatibilities:

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Recommended storage material:** Keep only in original packaging.

**Storage conditions:** Keep container tightly closed  
Store in a cool, dry place out of direct sunlight  
Do not freeze or store below 32°F (0°C) nor above 90°F (32°C) to prevent leakage or potential rupture of container due to contraction/expansion and pressure changes.

**Incompatible materials:** Polystyrene  
Polycarbonate ABS  
Polyphenylene Oxide (PPO)  
Epichlorohydrin  
Silicone  
Natural Rubber  
Acrylic

## 7.3. Specific end use(s):

This product should only be used for applications quoted in section 1.2.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters:

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

## 8.2. Exposure controls:

Apply general control to prevent unnecessary exposure

**General recommendations:** Smoking, drinking and consumption of food is not allowed in the work area.

**Exposure scenarios:** There are no exposure scenarios implemented for this product.

**Exposure limits:** Occupational exposure limits have not been defined for the substances in this product.



**Appropriate technical measures:**

Apply standard precautions during use of the product. Avoid inhalation of vapours.

**Hygiene measures:**

Take off contaminated clothing and wash it before reuse.

**Measures to avoid environmental exposure:**


Keep damming materials near the workplace. If possible, collect spillage during work.

**Individual protection measures, such as personal protective equipment:**

**Generally:**

Use only protective equipment with a recognized certification mark, e.g. the UL mark.


**Respiratory Equipment:**

| Work situation   | Type                               | Class | Colour | Standards    |   |
|--|------------------------------------|-------|--------|--------------|---|
| When the concentration in the air exceeds the occupational exposure limit or irritation and other symptoms occur | Self contained breathing apparatus |       |        | EN137, EN139 |  |


**Skin protection:**

| Work situation             | Recommended                    | Type/Category                  | Standards |  |
|----------------------------|--------------------------------|--------------------------------|-----------|--|
| if the situation requires. | Use proper protective clothing | Use proper protective clothing |           |  |

**Hand protection:**

| Work situation               | Material | Glove thickness (mm) | Breakthrough time (min.) | Standards |   |
|------------------------------|----------|----------------------|--------------------------|-----------|---|
| Under normal use conditions. | Neoprene |                      |                          |           |  |

**Eye protection:**

| Work situation               | Type           | Standards |   |
|------------------------------|----------------|-----------|---|
| Under normal use conditions. | Safety glasses | EN166     |  |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties:**

**Physical state:**

Liquid

**Color:**

Colorless

**Odor:**

Slight odor

**Odor threshold (ppm):**

No Data Available

**pH:**

No data available

**Density (g/cm<sup>3</sup>):**

No data available

**Relative density:**

1.362 (77 °F)

**Kinematic viscosity:**

0.41 cPs (68 °F)

**Particle characteristics:**

Does not apply to liquids.

**Phase changes:**

**Melting point/freezing point (°F):**

No data available

**Softening point/range (°F):**

Does not apply to liquids.



|  |                   |
|--|-------------------|
| <b>Boiling point (°F):</b>             | 102.2             |
| <b>Boiling point (°C):</b>             | 39                |
| <b>Vapor pressure:</b>                 | 368 mmHg          |
| <b>Relative vapor density:</b>         | No data available |
| <b>Decomposition temperature (°F):</b> | No data available |

#### Data on fire and explosion hazards:

|  |                   |
|--|-------------------|
| <b>Flash point (°F):</b>               | No flash point    |
| <b>Flammability (°F):</b>              | No data available |
| <b>Auto-ignition temperature (°F):</b> | No data available |
| <b>Explosion limits (% v/v):</b>       | 4.9 - 13.5        |

#### Solubility:

|  |                   |
|--|-------------------|
| <b>Solubility in water:</b>                  | No data available |
| <b>n-octanol/water coefficient (LogKow):</b> | No data available |
| <b>Solubility in fat (g/L):</b>              | No data available |

#### 9.2. Other information:

|   |  |
|---|--|
| <b>Thermal stability:</b>                       | Stable under normal conditions. Forms an azeotrope and will not flash. |
| <b>Evaporation rate (n-butylacetate = 100):</b> | No data available  |
| <b>VOC (g/L):</b>                               | 587  |
| <b>Other physical and chemical parameters:</b>  | No data available.   |
| <b>Surface tension (mN/m):</b>                  | 0.0141   |
| <b>Oxidizing properties:</b>                    | No data available  |

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity:

No data available.

#### 10.2. Chemical stability:

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions, including those associated with foreseeable emergencies:

None known.

#### 10.4. Conditions to avoid:

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.  
Avoid flames and other heat sources. Will decompose when exposed to extreme elevated temperatures.

#### 10.5. Incompatible materials:

Polystyrene  
Polyphenylene Oxide (PPO)  
Polycarbonate ABS  
Epichlorohydrin  
Silicone  
Natural Rubber  
Acrylic



Strong acids, strong bases, and strong oxidizing agents.

#### 10.6. ▼ Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects:

##### Acute toxicity:

|                    |                            |
|--------------------|----------------------------|
| Product/substance  | 1,2 trans-dichloroethylene |
| Species:           | Rat                        |
| Route of exposure: | Oral                       |
| Test:              | LD50                       |
| Result:            | 1235 mg/kg                 |

|                    |                            |
|--------------------|----------------------------|
| Product/substance  | 1,2 trans-dichloroethylene |
| Species:           | Mouse                      |
| Route of exposure: | Oral                       |
| Test:              | LD50                       |
| Result:            | 2122 mg/kg                 |

|                    |                            |
|--------------------|----------------------------|
| Product/substance  | 1,2 trans-dichloroethylene |
| Species:           | Rat                        |
| Route of exposure: | Inhalation                 |
| Test:              | LC50                       |
| Result:            | 24100 ppm                  |

|                    |                            |
|--------------------|----------------------------|
| Product/substance  | 1,2 trans-dichloroethylene |
| Species:           | Rabbit                     |
| Route of exposure: | Dermal                     |
| Test:              | LD50                       |
| Result:            | >5000 mg/kg                |

|                    |                                  |
|--------------------|----------------------------------|
| Product/substance  | Proprietary Fluorinated Compound |
| Species:           | Rat                              |
| Route of exposure: | Oral                             |
| Test:              | LD50                             |
| Result:            | >2000 mg/kg                      |

|                    |                                  |
|--------------------|----------------------------------|
| Product/substance  | Proprietary Fluorinated Compound |
| Species:           | Rat                              |
| Route of exposure: | Inhalation                       |
| Result:            | >24.8 mg/L                       |

|                    |                                  |
|--------------------|----------------------------------|
| Product/substance  | Proprietary Fluorinated Compound |
| Species:           | Rat                              |
| Route of exposure: | Dermal                           |
| Result:            | >2000 mg/kg                      |

Harmful if swallowed.

Harmful if inhaled.

##### Skin corrosion/irritation:

|                   |                            |
|-------------------|----------------------------|
| Product/substance | 1,2 trans-dichloroethylene |
| Species:          | Rabbit                     |



Result: Adverse effect observed (Irritating)

Product/substance: Proprietary Fluorinated Compound  
Species: Rabbit  
Result: No adverse effect observed (Not irritating)

Causes skin irritation.

#### ▼ Serious eye damage/irritation:

Product/substance: 1,2 trans-dichloroethylene  
Species: Rabbit  
Result: Adverse effect observed (Irritating)

Product/substance: Proprietary Fluorinated Compound  
Species: Rabbit  
Result: Adverse effect observed (Slightly irritating)

Based on available data for the mixture, the classification criteria are not met.

#### ▼ Respiratory sensitisation:

Based on available data for the mixture, the classification criteria are not met.

#### ▼ Skin sensitisation:

Product/substance: Proprietary Fluorinated Compound  
Species: Rat  
Result: No adverse effect observed (not sensitising)

Based on available data for the mixture, the classification criteria are not met.

#### ▼ Germ cell mutagenicity:

Product/substance: 1,2 trans-dichloroethylene  
Conclusion: Not Classified

Product/substance: Proprietary Fluorinated Compound  
Test method: OECD 471  
Conclusion: No adverse effect observed

Based on available data for the mixture, the classification criteria are not met.

#### ▼ Carcinogenicity:

Product/substance: 1,2 trans-dichloroethylene  
Conclusion: Not Classified

Product/substance: Proprietary Fluorinated Compound  
Conclusion: Not Classified

Based on available data for the mixture, the classification criteria are not met.

#### ▼ Reproductive toxicity:

Based on available data for the mixture, the classification criteria are not met.

#### STOT-single exposure:

May cause drowsiness or dizziness.

#### ▼ STOT-repeated exposure:

Product/substance: Proprietary Fluorinated Compound  
Route of exposure: Oral  
Duration: 28 days  
Test: NOAEL



Result: 1000 ppm

Product/substance: Proprietary Fluorinated Compound  
Species: Rat  
Route of exposure: Inhalation  
Duration: 5 days  
Result: 1800 ppm  
Conclusion: Adverse effect observed

Product/substance: Proprietary Fluorinated Compound  
Species: Rat  
Route of exposure: Inhalation  
Duration: 90 days  
Test: NOAEL  
Result: 1000 ppm  
Conclusion: No adverse effect observed

Based on available data for the mixture, the classification criteria are not met.

#### ▼ Aspiration hazard:

Based on available data for the mixture, the classification criteria are not met.

#### Long term effects:

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.

Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system.

Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### Other information:

None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. ▼ Toxicity:

Product/substance: Proprietary Fluorinated Compound  
Species: Fish  
Duration: 96 hours  
Test: LC50  
Result: >76 mg/L

Product/substance: Proprietary Fluorinated Compound  
Test method: OECD 209  
Compartment: Activated Sludge Plant  
Result: >100 mg/L

Product/substance: Proprietary Fluorinated Compound  
Species: Algae  
Test: EC50  
Result: 213 mg/L

Product/substance: Proprietary Fluorinated Compound  
Species: Daphnia magna  
Duration: 48 hours



Result: >94 mg/L

Based on available data for the mixture, the classification criteria are not met.

### 12.2. Persistence and degradability:

Product/substance: Proprietary Fluorinated Compound  
 Conclusion: Not biodegradable  
 Test: OECD 301 C

### 12.3. ▼ Bioaccumulative potential:

Product/substance: Proprietary Fluorinated Compound  
 Conclusion: No Data Available  
 Test: OECD 301C

### 12.4. Mobility in soil:

No data available.

### 12.5. Results of PBT and vPvB assessment:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Other adverse effects:

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods:

This material can be reclaimed by the manufacturer if required or disposed of at an approved facility according to local regulations.

### RCRA Hazardous waste ("P" and "U" list) (40 CFR 261):

1,2 trans-dichloroethylene is listed with EPA Hazardous Waste Number: U079

### Specific labelling:

### Contaminated packing:

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: TRANSPORT INFORMATION

|      | 14.1<br>UN / ID | 14.2<br>UN proper shipping name | 14.3<br>Hazard class(es) | 14.4<br>PG* | 14.5<br>Env** | Other<br>information: |
|------|-----------------|---------------------------------|--------------------------|-------------|---------------|-----------------------|
| DOT  | -               | -                               | -                        | -           | -             | -                     |
| IMDG | -               | -                               | -                        | -           | -             | -                     |
| IATA | -               | -                               | -                        | -           | -             | -                     |

\* Packing group

\*\* Environmental hazards

### Additional information:

Not dangerous goods according to DOT, IATA and IMDG.

### 14.6. Special precautions for user:

Not applicable.

### 14.7. Transport in bulk according to IMO instruments:



No data available.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

#### 15.2. U.S. Federal regulations:

|  |   |
|--|---|
| <b>TSCA (the non-confidential portion):</b>    | 1,2 trans-dichloroethylene is listed<br>Proprietary Fluorinated Compound is listed      |
| <b>Clean Air Act:</b>                          | None of the components are listed   |
| <b>EPCRA Section 302:</b>                      | None of the components are listed   |
| <b>EPCRA Section 304:</b>                      | None of the components are listed   |
| <b>EPCRA section 313:</b>                      | None of the components are listed   |
| <b>CERCLA:</b>                                 | 1,2 trans-dichloroethylene is regulated with a Reportable Quantity (RQ) of: 1000 pounds |
| <b>Hazardous chemical inventory reporting:</b> | This product is subject to Tier II reporting.   |

#### State regulations:

|   |  |
|---|--|
| <b>California / Prop. 65:</b>             | None of the components are listed  |
| <b>Massachusetts / Right To Know Act:</b> | 1,2 trans-dichloroethylene is listed   |
| <b>New Jersey / Right To Know Act:</b>    | None of the components are listed  |
| <b>New York / Right To Know Act:</b>      | 1,2 trans-dichloroethylene is listed<br>1,2 trans-dichloroethylene is regulated with a Treshold Reporting Quantity (TRQ) of: 10 pounds |
| <b>Pennsylvania / Right To Know Act:</b>  | 1,2 trans-dichloroethylene is listed<br>1,2 trans-dichloroethylene is hazardous to the environment (E)                                 |

### 15.4. Restrictions for application:

Restricted to professional users.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

### 15.5. Demands for specific education:

No specific requirements.

### 15.6. Additional information:

Not applicable.

### 15.7. Chemical safety assessment:

No

### 15.8. Sources:

OSHA Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3:

H225, Highly flammable liquid and vapour.

H315, Causes skin irritation.



H319, Causes serious eye irritation.  
H320, Causes eye irritation  
H332, Harmful if inhaled.  
H336, May cause drowsiness or dizziness.

**The full text of identified uses as mentioned in section 1:**

None known.

**Abbreviations and acronyms:**

ACGIH = American Conference of Governmental Industrial Hygienists  
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CERCLA = Comprehensive Environmental Response Compensation and Liability Act  
DOT = Department of Transportation  
EINECS = European Inventory of Existing Commercial chemical Substances  
EPCRA = Emergency Planning and Community Right-To-Know Act  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HCIS = Hazardous Chemical Information System  
HNOC = Hazards Not Otherwise Classified  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NFPA = National Fire Protection Association  
NIOSH = National Institute for Occupational Safety and Health  
OECD = Organisation for Economic Co-operation and Development  
OSHA = Occupational Safety and Health Administration  
PBT = Persistent, Bioaccumulative and Toxic  
RCRA = Resource Conservation and Recovery Act  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SARA = Superfund Amendments and Reauthorization Act  
SCL = A specific concentration limit.  
STEL = Short-term exposure limits  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TSCA = The Toxic Substances Control Act  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

**Additional information:**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

**The safety data sheet is validated by:**

TMC Industries - QC Department



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**Other:**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle. The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en