

## Chemical Safety Data Sheet MSDS / SDS

## FUSARENON X

Revision Date:2026-05-31 Revision Number:1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## Product identifier

Product name : FUSARENON X  
CBnumber : CB1503492  
CAS : 23255-69-8  
EINECS Number : 621-752-1  
Synonyms : FUSARENON,Fusarenone X

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

## Company Identification

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

## SECTION 2: Hazards identification

## GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word

Danger

## Precautionary statements

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continuerinsing.

## Hazard statements

H300 Fatal if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

## SECTION 3: Composition/information on ingredients

## Substance

|              |                          |
|--------------|--------------------------|
| Product name | : FUSARENON X            |
| Synonyms     | : FUSARENON,Fusarenone X |
| CAS          | : 23255-69-8             |
| EC number    | : 621-752-1              |
| MF           | : C17H22O8               |
| MW           | : 354.36                 |

---

## SECTION 4: First aid measures

### Description of first aid measures

#### General information

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### After inhalation

In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact

Immediately wash with water and soap and rinse thoroughly.

#### After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### After swallowing

Immediately call a doctor.

#### Information for doctor

#### Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### Indication of any immediate medical attention and special treatment needed

No further relevant information available.

---

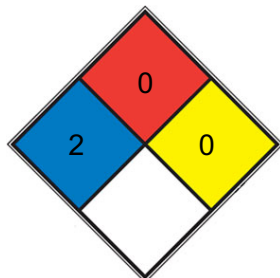
## SECTION 5: Firefighting measures

### FIRE-FIGHTING MEASURES

| Fire-fighting measure         | Details                                                                           |
|-------------------------------|-----------------------------------------------------------------------------------|
| Suitable extinguishing agents | Use fire fighting measures that suit the environment. A solid water stream may be |

|                                                       |                                                                         |
|-------------------------------------------------------|-------------------------------------------------------------------------|
|                                                       | inefficient.                                                            |
| Special hazards arising from the substance or mixture | 67-56-1 During heating or in case of fire poisonous gases are produced. |
| Protective equipment                                  | Mouth respiratory protective device.                                    |

## NFPA 704



**HEALTH 2** Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g. [diethyl ether](#), ammonium phosphate, iodine)

**FIRE 0** Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. Materials that will not burn in air when exposed to a temperature of 820 °C (1,500 °F) for a period of 5 minutes. (e.g. Carbon tetrachloride)

**REACT 0** Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, [N<sub>2</sub>](#))

**SPEC.**

**HAZ.**

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

### Environmental precautions

Do not allow to enter sewers/ surface or ground water.

### Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### Protective Action Criteria for Chemicals

#### PAC-1

75-09-2 Dichloromethane 200 ppm

## **PAC-2**

75-09-2 Dichloromethane 560 ppm

## **PAC-3**

---

# SECTION 7: Handling and storage

## **Handling**

### **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

### **Information about protection against explosions and fires**

Keep respiratory protective device available.

### **Conditions for safe storage, including any incompatibilities**

## **Storage**

Store in accordance with information listed on the product insert.

### **Requirements to be met by storerooms and receptacles**

No special requirements.

### **Information about storage in one common storage facility**

Not required.

### **Further information about storage conditions**

Keep receptacle tightly sealed.

### **Specific end use(s)**

No further relevant information available.

---

# SECTION 8: Exposure controls/personal protection

## **Additional information about design of technical systems**

No further data; see section 7.

## **Control parameters**

Components with limit values that require monitoring at the workplace:

|                         |
|-------------------------|
| 75-09-2 Dichloromethane |
|-------------------------|

|     |                                                                           |
|-----|---------------------------------------------------------------------------|
| PEL | Short-term value: 125 ppm<br>Long-term value: 25 ppm see 29 CFR 1910.1052 |
| REL | See Pocket Guide App. A                                                   |
| TLV | Long-term value: 50 ppm                                                   |
| BEI | , A3                                                                      |

|                                           |                                                                                                   |
|-------------------------------------------|---------------------------------------------------------------------------------------------------|
| Ingredients with biological limit values: |                                                                                                   |
| <b>75-09-2 Dichloromethane</b>            |                                                                                                   |
| BEI                                       | 0.3 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Dichloromethane (semi-quantitative) |

### Additional information

The lists that were valid during the creation were used as basis.

### Exposure controls

### Personal protective equipment

### General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

### Breathing equipment

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

### Protection of hands

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection**

Safety glasses

Tightly sealed goggles

---

**SECTION 9: Physical and chemical properties****Information on basic physicochemical properties****Appearance****Physical State**

Liquid

**Color**

Colorless

**Odor**

Like chlorine

**Structural Formula**

C<sub>17</sub>H<sub>22</sub>O<sub>8</sub>

**Molecular Weight**

354.4 g/mol

**Odor Threshold**

Not determined.

**Formulation**

A solution in dichloromethane

**pH**

Not determined.

**Change in condition****Melting point/Melting range**

-95.1 °C (-139.2 °F)

**Boiling point/Boiling range**

40 °C (104 °F)

**Flash point**

2 °C

**Flammability (solid,gas)**

Not applicable.

**Auto igniting**

605 °C (1,121 °F)

**Decomposition temperature**

Not determined.

**Ignition temperature**

Product is not selfigniting.

**Danger of explosion**

Product does not present an explosion hazard.

**Explosion limits**

Lower: 13 Vol %

Upper: 22 Vol %

**Vapor Pressure at 20 °C (68 °F)**

453 hPa (339.8 mm Hg)

**Density at 20 °C (68 °F)**

1.33 g/cm<sup>3</sup> (11.09885 lbs/gal)

**Relative Density**

1.2646 (rough estimate)

**Vapor Density**

Not determined.

**Evaporation Rate**

Not determined.

**Solubility in / Miscibility with**

Dichloromethane: Soluble

**Water at 20 °C (68 °F)**

20 g/l

**Partition coefficient (n-octanol/water)**

Not determined.

**Viscosity****Dynamic**

at 20 °C (68 °F): 0.43 mPas

#### **Kinematic**

Not determined.

#### **SOLUBILITY**

Dichloromethane: Soluble

#### **Organic solvents**

100.0 %

#### **VOC content**

0.00 % 0.0 g/l / 0.00 lb/gal

#### **Solids content**

0.1 %

#### **Other information**

No information available

---

## SECTION 10: Stability and reactivity

#### **Reactivity**

No further relevant information available.

#### **Chemical stability**

#### **Thermal decomposition / conditions to be avoided**

No decomposition if used according to specifications.

#### **Possibility of hazardous reactions**

No dangerous reactions known.

#### **Conditions to avoid**

No further relevant information available.

#### **Incompatible materials**

No further relevant information available.

#### **Hazardous decomposition products**

No dangerous decomposition products known.

---

## SECTION 11: Toxicological information

## Information on toxicological effects

### Acute toxicity

LD/LC50 values that are relevant for classification:

| Substance / Estimate          | Route           | Endpoint | Value               |
|-------------------------------|-----------------|----------|---------------------|
| ATE (Acute Toxicity Estimate) | Oral            | LD50     | 1,601 mg/kg (rat)   |
| 75-09-2 Dichloromethane       | Oral            | LDLO     | 357 mg/kg (hmn)     |
| 75-09-2 Dichloromethane       | Oral            | LD50     | 1,600 mg/kg (rat)   |
| 75-09-2 Dichloromethane       | Oral            | TDLO     | 1,429 µL/kg (man)   |
| 75-09-2 Dichloromethane       | Inhalative      | LC50/4 h | 88 mg/l (rat)       |
| 75-09-2 Dichloromethane       | Intraperitoneal | LD50     | 916 mg/kg (rat)     |
| 75-09-2 Dichloromethane       | Subcutaneous    | LD50     | 6,460 mg/kg (mouse) |

### Primary irritant effect

#### on the skin

Irritant to skin and mucous membranes.

#### on the eye

Irritating effect.

### Sensitization

No sensitizing effects known.

### Additional toxicological information

The product shows the following dangers according to internally approved calculation methods for preparations

Harmful

Irritant

### Carcinogenic categories

#### IARC (International Agency for Research on Cancer)

75-09-2 Dichloromethane 2A

#### NTP (National Toxicology Program)

75-09-2 Dichloromethane R

#### OSHA-Ca (Occupational Safety & Health Administration)

75-09-2 Dichloromethane

---

## SECTION 12: Ecological information

### Toxicity

**Aquatic toxicity**

No further relevant information available.

**Persistence and degradability**

No further relevant information available.

**Behavior in environmental systems****Bioaccumulative potential**

No further relevant information available.

**Mobility in soil**

No further relevant information available.

**Additional ecological information****General notes**

Water hazard class 2 (Self-assessment) hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

**Results of PBT and vPvB assessment****PBT**

Not applicable.

**vPvB**

Not applicable.

**PBT:**

Not applicable.

**vPvB:**

Not applicable.

**Other adverse effects**

No further relevant information available.

---

## SECTION 13: Disposal considerations

**Waste treatment methods****Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

## Uncleaned packagings

### Recommendation

Disposal must be made according to official regulations.

---

## SECTION 14: Transport information

### UN-Number

DOT, IMDG, IATA UN1593

### UN proper shipping name

DOT, IATA Dichloromethane

IMDG DICHLOROMETHANE

### Transport hazard class(es)

#### DOT

Class: 6.1 Toxic substances

Label: 6.1

#### IMDG, IATA

Class: 6.1 Toxic substances

Label: 6.1

### Packing group

DOT, IMDG, IATA III

### Environmental hazards

Not applicable.

### Special precautions for user

Warning: Toxic substances

### Hazard identification number (Kemler code)

60

### EMS Number

F-A,S-A

### Segregation groups

(SGG10) Liquid halogenated hydrocarbons

### Stowage Category

A

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## Transport/Additional information

### DOT:

### Quantity limitations

On passenger aircraft/rail: 60 L

On cargo aircraft only: 220 L

### IMDG:

### Limited quantities (LQ)

5L

### Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

### IATA:

### Remarks

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of

E1, E2, E4, or E5, this item meets the De Minimis

Quantities exemption, per IATA 2.6.10.

Therefore packaging does not have to be labeled as

Dangerous Goods/Excepted Quantity.

### UN "Model Regulation"

UN 1593 DICHLOROMETHANE, 6.1, III

---

## SECTION 15: Regulatory information

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

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5))

### Sara

|                                                                                        |                                                                                                      |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Section 355 (extremely hazardous substances):                                          | None of the ingredients is listed.                                                                   |
| Section 313 (Specific toxic chemical listings):                                        | 75-09-2 Dichloromethane                                                                              |
| TSCA (Toxic Substances Control Act):                                                   | This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) |
| or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal. |                                                                                                      |
| 75-09-2 Dichloromethane ACTIVE                                                         |                                                                                                      |

**Proposition 65**

|                                                             |                                    |
|-------------------------------------------------------------|------------------------------------|
| Chemicals known to cause cancer:                            | 75-09-2 Dichloromethane            |
| Chemicals known to cause reproductive toxicity for females: | None of the ingredients is listed. |
| Chemicals known to cause reproductive toxicity for males:   | None of the ingredients is listed. |
| Chemicals known to cause developmental toxicity:            | None of the ingredients is listed. |

**Carcinogenic categories**

EPA (Environmental Protection Agency):

**75-09-2**

Dichloromethane L

**TLV (Threshold Limit Value)****75-09-2**

Dichloromethane A3

**75-09-2**

Dichloromethane

**Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2

Carcinogenicity 2: Carcinogenicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1

**Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.