



**SAFETY DATA SHEET**  
Zerex™ ZEREX AMERICAN VEHICLE  
Antifreeze

Version: 1.1

Revision Date: 12/23/2024

Print Date:  
04/12/2025

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**SECTION 1. IDENTIFICATION**

Product name : Zerex™ ZEREX AMERICAN VEHICLE  
Antifreeze

Product code : 911857

**Manufacturer or supplier's details**

Company name of supplier : Valvoline Global Operations

Address : 100 Valvoline Way  
Lexington, KY 40509  
United States of America (USA)

Telephone : 1-800-TEAMVAL (1-800-832-6825)

E-mail address : SDS@valvolineglobal.com

Emergency telephone number : +1-800-VALVOLINE (+1-800-825-8654)

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**SECTION 2. HAZARDS IDENTIFICATION**

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

Acute toxicity (Oral) : Category 4

Specific target organ toxicity  
- repeated exposure (Oral) : Category 2 (Kidney)

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 Harmful if swallowed.  
H373 May cause damage to organs (Kidney) through prolonged  
or repeated exposure if swallowed.

Precautionary statements : **Prevention:**  
P260 Do not breathe mist or vapours.



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P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P314 Get medical advice/ attention if you feel unwell.

**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) |
|------------------------------------|----------|-----------------------|
| ethanediol                         | 107-21-1 | >= 90 - <= 100        |
| 2-ethylhexanoic acid and its salts | 149-57-5 | >= 1 - < 5            |

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

Most important symptoms and effects, both acute and : Harmful if swallowed.  
May cause damage to organs through prolonged or repeated



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|                    |  |
|--------------------|--|
| delayed            | exposure if swallowed.<br>No symptoms known or expected.                         |
| Notes to physician | : No hazards which require special first aid measures.<br>Treat symptomatically. |

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**SECTION 5. FIREFIGHTING MEASURES**

|   |   |
|---|---|
| Suitable extinguishing media                  | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  |
| Unsuitable extinguishing media                | : High volume water jet   |
| Hazardous combustion products                 | : No hazardous combustion products are known  |
| Further information                           | : Standard procedure for chemical fires.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.  |

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

|   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Refer to protective measures listed in sections 7 and 8.<br>Use personal protective equipment.  |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.                             |

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**SECTION 7. HANDLING AND STORAGE**

|   |   |
|---|---|
| Advice on protection against fire and explosion | : Normal measures for preventive fire protection.   |
| Advice on safe handling                         | : Do not breathe vapours/dust.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations. |



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- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
 Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

| Components                         | CAS-No.  | Value type (Form of exposure)           | Control parameters / Permissible concentration | Basis   |
|------------------------------------|----------|---|--|---------|
| ethanediol                         | 107-21-1 | TWA (Vapour)                            | 25 ppm   | ACGIH   |
|                                    |          | STEL (Vapour)                           | 50 ppm   | ACGIH   |
|                                    |          | STEL (Inhalable fraction, Aerosol only) | 10 mg/m3                                       | ACGIH   |
|                                    |          | C                                       | 50 ppm<br>125 mg/m3                            | OSHA P0 |
| 2-ethylhexanoic acid and its salts | 149-57-5 | TWA (Inhalable fraction and vapor)      | 5 mg/m3  | ACGIH   |

**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**



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|  |   |                             |
|--|---|-----------------------------|
| Appearance                                       | : | liquid                      |
| Colour   | : | orange                      |
| Odour  | : | No data available           |
| Odour Threshold                                  | : | No data available           |
| pH   | : | No data available           |
| Melting point/freezing point                     | : | No data available           |
| Boiling point/boiling range                      | : | No data available           |
| Flash point                                      | : | 394 - 480 °F / 201 - 249 °C |
| Evaporation rate                                 | : | No data available           |
| Flammability (solid, gas)                        | : | No data available           |
| Self-ignition                                    | : | No data available           |
| Upper explosion limit / Upper flammability limit | : | No data available           |
| Lower explosion limit / Lower flammability limit | : | No data available           |
| Vapour pressure                                  | : | No data available           |
| Relative vapour density                          | : | No data available           |
| Relative density                                 | : | No data available           |
| Density  | : | 9.307 lb/gal                |
| Solubility(ies)                                  |   |                             |
| Water solubility                                 | : | No data available           |
| Solubility in other solvents                     | : | No data available           |
| Partition coefficient: n-octanol/water           | : | No data available           |
| Decomposition temperature                        | : | No data available           |
| Viscosity  |   |                             |
| Viscosity, dynamic                               | : | No data available           |



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Viscosity, kinematic : No data available  
Oxidizing properties : No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.  
Chemical stability : No decomposition if stored and applied as directed.  
Possibility of hazardous reactions : No decomposition if stored and applied as directed.  
Conditions to avoid : excessive heat  
Incompatible materials : Aldehydes  
Alkali metals  
Alkaline earth metals  
Amines  
Ammonia  
Bases  
chromium trioxide  
Copper  
Copper alloys  
Reducing agents  
Strong acids  
strong alkalis  
Strong oxidizing agents  
Sulphur compounds  
Hazardous decomposition products : No hazardous decomposition products are known.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

Harmful if swallowed.

**Product:**

Acute oral toxicity : Acute toxicity estimate: 523.31 mg/kg  
Method: Calculation method

**Components:**

**ethanediol:**

Acute oral toxicity : LD0 (Human): estimated 1.56 g/kg

Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): 10.9 mg/l  
Exposure time: 1 h



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Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute  
inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 9,530 mg/kg

Acute toxicity (other routes of : LD50 (Rat): 5,010 mg/kg  
administration) Application Route: Intraperitoneal

LD50 (Rat): 3,260 mg/kg  
Application Route: Intravenous

**2-ethylhexanoic acid and its salts:**

Acute oral toxicity : LD50 (Rat, male): 3,000 mg/kg

LD50 (Rat, female): 2,043 mg/kg

Acute inhalation toxicity : LC0 (Rat): 0.11 mg/l  
Exposure time: 8 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute  
inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal  
toxicity  
Remarks: No mortality observed at this dose.

**Skin corrosion/irritation**

Not classified due to lack of data.

**Components:**

**ethanediol:**

Species : Rabbit  
Result : No skin irritation

**2-ethylhexanoic acid and its salts:**

Species : Rabbit  
Result : Slight, transient irritation

**Serious eye damage/eye irritation**

Not classified due to lack of data.



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**Components:**

**ethanediol:**

Result : Slight, transient irritation

**2-ethylhexanoic acid and its salts:**

Species : Rabbit

Result : Slight, transient irritation

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified due to lack of data.

**Respiratory sensitisation**

Not classified due to lack of data.

**Components:**

**ethanediol:**

Test Type : Maximisation Test

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

**2-ethylhexanoic acid and its salts:**

Test Type : Maximisation Test

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

**Germ cell mutagenicity**

Not classified due to lack of data.

**Components:**

**ethanediol:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

**2-ethylhexanoic acid and its salts:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative



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**Carcinogenicity**

Not classified due to lack of data.

**IARC** No component 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 component 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**

Not classified due to lack of data.

**STOT - single exposure**

Not classified due to lack of data.

**STOT - repeated exposure**

May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

**Components:**

**ethanediol:**

Exposure routes : Ingestion  
Target Organs : Kidney  
Assessment : May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

Not classified due to lack of data.

**Experience with human exposure**

**Components:**

**ethanediol:**

Ingestion : Target Organs: Kidney

**Further information**

**Product:**

Remarks : No data available



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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

**Ecotoxicology Assessment**

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

**Components:**

**ethanediol:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 27,540 mg/l  
Exposure time: 96 h  
Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 8,050 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 6,500 - 13,000 mg/l  
End point: Growth inhibition  
Exposure time: 7 Days

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 32,000 mg/l  
Exposure time: 7 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 24,000 mg/l  
Exposure time: 7 d

**Ecotoxicology Assessment**

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

**2-ethylhexanoic acid and its salts:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test



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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 85.4 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 49.3 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test

**Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.

**Persistence and degradability**

**Components:**

**ethanediol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90 - 100 %  
Exposure time: 10 d  
Method: OECD Test Guideline 301

**2-ethylhexanoic acid and its salts:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 99 %  
Exposure time: 28 d

**Bioaccumulative potential**

**Components:**

**ethanediol:**

Bioaccumulation : Species: Crayfish (Procambarus)  
Bioconcentration factor (BCF): 0.27  
Exposure time: 61 d  
Concentration: 1000 mg/l  
Method: Flow through

Partition coefficient: n-octanol/water : log Pow: -1.36

**2-ethylhexanoic acid and its salts:**

Partition coefficient: n-octanol/water : log Pow: 2.64



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**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 : No data available  
information

**Global warming potential**

**Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the  
United Nations Framework Convention on Climate Change (UNFCCC)**

**Components:**

**octamethylcyclotetrasiloxane [D4]:**

20-year global warming potential: 2.66  
100-year global warming potential: 0.739  
500-year global warming potential: 0.211  
Atmospheric lifetime: 0.027 yr  
Radiative efficiency: 0.12 Wm<sup>2</sup>ppb  
Further information: Miscellaneous compounds

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with  
chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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**SECTION 14. TRANSPORT INFORMATION**

**International Regulations**

**UNRTDG**



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Not regulated as a dangerous good

**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.

**National Regulations**

**49 CFR**

Not regulated as a dangerous good

**Special precautions for user**

Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**SECTION 15. REGULATORY INFORMATION**

**CERCLA Reportable Quantity**

| Components | CAS-No.  | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------|----------|--------------------|-----------------------------|
| toluene    | 108-88-3 | 100                | 100 (F005)                  |

**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 311/312 Hazards** : Acute toxicity (any route of exposure)  
Specific target organ toxicity (single or repeated exposure)

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

ethanediol                      107-21-1                      >= 90 - <= 100 %

**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).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

ethanediol                      107-21-1                      >= 90 - <= 100 %



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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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

|            |          |                  |
|------------|----------|------------------|
| ethanediol | 107-21-1 | >= 90 - <= 100 % |
|------------|----------|------------------|

**Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

|                  |           |                |
|------------------|-----------|----------------|
| sodium hydroxide | 1310-73-2 | >= 0.1 - < 1 % |
| toluene          | 108-88-3  | >= 0 - < 0.1 % |

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

|                  |           |                |
|------------------|-----------|----------------|
| sodium hydroxide | 1310-73-2 | >= 0.1 - < 1 % |
| toluene          | 108-88-3  | >= 0 - < 0.1 % |

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**

|            |           |
|------------|-----------|
| ethanediol | 107-21-1  |
| water      | 7732-18-5 |

**Pennsylvania Right To Know**

|                  |           |
|------------------|-----------|
| ethanediol       | 107-21-1  |
| sodium hydroxide | 1310-73-2 |

**Maine Chemicals of High Concern**

|                                   |           |
|-----------------------------------|-----------|
| water                             | 7732-18-5 |
| toluene                           | 108-88-3  |
| octamethylcyclotetrasiloxane [D4] | 556-67-2  |

**Vermont Chemicals of High Concern**

|   |            |
|---|------------|
| ethanediol                              | 107-21-1   |
| 2-ethylhexanoic acid and its salts      | 149-57-5   |
| water                                   | 7732-18-5  |
| molybdic acid, disodium salt, dihydrate | 10102-40-6 |
| toluene                                 | 108-88-3   |
| octamethylcyclotetrasiloxane [D4]       | 556-67-2   |

**Washington Chemicals of High Concern**

|                                    |           |
|------------------------------------|-----------|
| ethanediol                         | 107-21-1  |
| 2-ethylhexanoic acid and its salts | 149-57-5  |
| water                              | 7732-18-5 |
| toluene                            | 108-88-3  |



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**California Prop. 65**

WARNING: This product can expose you to chemicals including ethanediol, toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California List of Hazardous Substances**

ethanediol 107-21-1

**California Permissible Exposure Limits for Chemical Contaminants**

ethanediol 107-21-1

**The components of this product are reported in the following inventories:**

TCSI : On the inventory, or in compliance with the inventory  
TSCA : All substances listed as active on the TSCA inventory  
AIIC : On the inventory, or in compliance with the inventory  
DSL : All components of this product are on the Canadian DSL  
ENCS : On the inventory, or in compliance with the inventory  
KECI : On the inventory, or in compliance with the inventory  
PICCS : On the inventory, or in compliance with the inventory  
IECSC : On the inventory, or in compliance with the inventory  
NZIoC : Not in compliance with the inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

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

**Inventories**

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

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**SECTION 16. OTHER INFORMATION**

**Further information**



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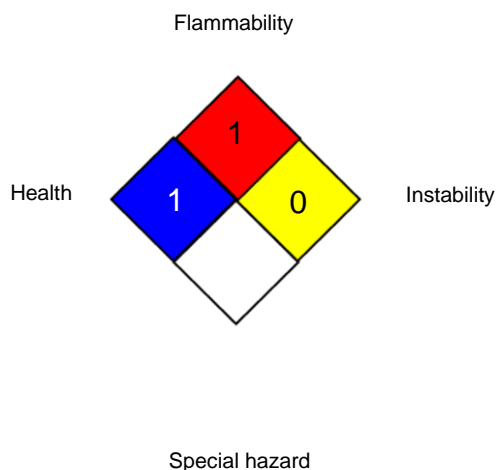
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**NFPA 704:**



**HMIS® IV:**

|                        |   |          |
|------------------------|---|----------|
| <b>HEALTH</b>          | * | <b>2</b> |
| <b>FLAMMABILITY</b>    |   | <b>1</b> |
| <b>PHYSICAL HAZARD</b> |   | <b>0</b> |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**Full text of other abbreviations**

- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
- ACGIH / TWA : 8-hour, time-weighted average
- ACGIH / STEL : Short-term exposure limit
- OSHA P0 / C : Ceiling limit

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -



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National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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