

Safety Data Sheet

Prist® HI-FLASH HI-FLOW™ Anti-Icing Aviation Fuel Additive

Version 1.8

Revision Date: 08/28/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Prist® HI-FLASH HI-FLOW™ Anti-Icing Aviation Fuel Additive

Product Use Description : Fuels and fuel additives, DEICER

Manufacturer or supplier's details

Company : Nexeo Solutions LLC – PRIST®
Address : 3 Waterway Square Place Suite 1000
Woodlands, TX. 77380
United States of America

Emergency telephone number:

Health North America: 1-855-NEXEO4U (1-855-639-3648)

Health International: 1-855-NEXEO4U (1-855-639-3648)

Transport North America: CHEMTREC 800.424.9300

Additional Information: : Responsible Party: Product Safety Group
E-Mail: msds@nexeosolutions.com
SDS Requests: 1-855-429-2661
SDS Requests Fax: 1-281-500-2370
Website: www.nexeosolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable aerosols : Category 1

Gases under pressure : Compressed gas

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Simple Asphyxiant :

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

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H280 Contains gas under pressure; may explode if heated.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

May displace oxygen and cause rapid suffocation.

Precautionary statements : **Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Carcinogenicity:

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.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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.

Emergency Overview

| | |
|----------------|-------------------------------------|
| Appearance | Aerosol containing a compressed gas |
| Colour | Clear, Colorless |
| Odour | mild, aromatic |
| Hazard Summary | No information available. |

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

| CAS-No. | Chemical Name | Concentration (%) |
|----------|-----------------|-------------------|
| 111-77-3 | Glycol Ether DM | 90 - 100 |
| 124-38-9 | Carbon Dioxide | 1 - 5 |

Molecular formula : CH₃ O (CH₂CH₂O)₂H

Synonyms : PRIST FA P/N 36437,

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 : Consult a physician after significant exposure.
If unconscious place in recovery position and seek medical advice.

In case of skin contact : First aid is not normally required. However, it is rec-

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ommended that exposed areas be cleaned by washing with soap and water.

- 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 : Do not induce vomiting without medical advice.
Keep respiratory tract clear.
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.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon oxides
- Specific extinguishing methods : Use a water spray to cool fully closed containers.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for fire-fighting if necessary.

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NFPA Flammable and Combustible Liquids Classification:
Combustible Liquid Class IIIA

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
| Environmental precautions | : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. |

SECTION 7. HANDLING AND STORAGE

- | | |
|-----------------------------|--|
| Advice on safe handling | : Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage | : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. |

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| CAS-No. | Components | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|----------|----------------|----------------------------------|--|-----------|
| 124-38-9 | Carbon Dioxide | TWA | 5,000 ppm | ACGIH |
| | | STEL | 30,000 ppm | ACGIH |
| | | TWA | 5,000 ppm 9,000 mg/m ³ | NIOSH REL |
| | | ST | 30,000 ppm 54,000 mg/m ³ | NIOSH REL |
| | | TWA | 5,000 ppm 9,000 mg/m ³ | OSHA Z-1 |
| | | TWA | 10,000 ppm 18,000 mg/m ³ | OSHA P0 |
| | | STEL | 30,000 ppm 54,000 mg/m ³ | OSHA P0 |

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

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

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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

Appearance : Aerosol containing a compressed gas

Colour : Clear, Colorless

Odour : mild, aromatic

Odour Threshold : No data available

pH : No data available

Freezing Point (Melting point/freezing point) : -84 - -65 °C (-119 - -85 °F)

Boiling Point (Boiling point/boiling range) : 193 - 194 °C (379 - 381 °F)
(1013 hPa)

Flash point : 83.9 - 91 °C (183.0 - 196 °F)
(1,013 hPa)

Evaporation rate : 0.02
(Butyl Acetate = 1)

Flammability (solid, gas) : No data available

Burning rate : No data available

Upper explosion limit : 22.7 %(V)

Lower explosion limit : 1.38 %(V)

Vapour pressure : 0.19 - 0.25 mmHg @ 20 - 25 °C (68 - 77 °F)

Relative vapour density : 4.2(Air = 1.0)

Relative density : 1.020 - 1.025 @ 20 °C (68 °F)
Reference substance: (water = 1)

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| | |
|--|---|
| Density | : 1.022 - 1.025 g/cm ³ @ 20 °C (68 °F) |
| Bulk density | : No data available |
| Solubility(ies) | |
| Water solubility | : completely soluble |
| Solubility in other solvents | : No data available |
| Partition coefficient: n-octanol/water | : log Pow: -0.47 - -0.46 @ 20 °C (68 °F) |
| Auto-ignition temperature | : 215 °C |
| Thermal decomposition | : No data available |
| Viscosity | |
| Viscosity, dynamic | : 3.9 mPa.s @ 20 °C (68 °F) |
| Viscosity, kinematic | : 3.82 - 3.89 mm ² /s @ 20 °C (68 °F) |

SECTION 10. STABILITY AND REACTIVITY

| | |
|------------------------------------|--|
| Reactivity | : No dangerous reaction known under conditions of normal use. |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : No hazards to be specially mentioned. |
| Conditions to avoid | : Keep away from heat, flame, sparks and other ignition sources. |
| Incompatible materials | : Strong acids Strong bases Strong oxidizing agents |
| Hazardous decomposition products | : Aldehydes Carbon oxides Ketones Organic acids |

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

111-77-3:

Acute oral toxicity : LD50 (Mouse): 7,128 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC0 (Rat): > 1.2 mg/l
Exposure time: 6 h
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 9,404 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

124-38-9:

Acute oral toxicity :
Remarks: presumed non-toxic

Acute inhalation toxicity : Remarks: presumed non-toxic

Acute dermal toxicity : Remarks: presumed non-toxic

Skin corrosion/irritation

Product:

Result: No skin irritation

Components:

111-77-3:

Species: Rabbit
Exposure time: 4 h
Result: No skin irritation

124-38-9:

Result: presumed non-toxic

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Serious eye damage/eye irritation

Product:

Result: No eye irritation

Components:

111-77-3:

Species: Rabbit

Result: No eye irritation

124-38-9:

Result: presumed non-toxic

Respiratory or skin sensitisation

Components:

111-77-3:

Test Type: Maximization test

Species: Guinea pig

Result: Does not cause skin sensitisation.

124-38-9:

Remarks: No data available

Germ cell mutagenicity

Components:

111-77-3:

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

Germ cell mutagenicity-Assessment : Did not show mutagenic effects in animal experiments.

124-38-9:

Germ cell mutagenicity-Assessment : mutagenicity classification is not possible

Carcinogenicity

Components:

111-77-3:

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Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

124-38-9:

Carcinogenicity - Assessment : carcinogenicity classification is not possible

Reproductive toxicity

Components:

111-77-3:

Effects on fertility : Test Type: Fertility
Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: > 612 mg/kg body weight

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Oral
Duration of Single Treatment: 10 d
Teratogenicity: LOAEL: 720 mg/kg body weight
Symptoms: Skeletal malformations

Reproductive toxicity - Assessment : Suspected human reproductive toxicant, May damage the unborn child.

124-38-9:

Reproductive toxicity - Assessment : reproduction classification is not possible
teratogenicity classification is not possible

STOT - single exposure

Product:

| Exposure routes: | Target Organs: | Assessment: | Remarks: |
|------------------|------------------------|--|----------|
| | Central nervous system | The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects. | |

Components:

111-77-3: No data available

124-38-9: No data available

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STOT - repeated exposure

Product: No data available

Components:

111-77-3: No data available

124-38-9: No data available

Repeated dose toxicity

Components:

111-77-3:

Species: Rat

NOAEL: 900 mg/kg

Application Route: Oral

Exposure time: 6 wks

Number of exposures: 5 d/wk

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

111-77-3:

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): 5,741 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)): 1,192 mg/l Exposure time: 48 h Test Type: static test |
| Toxicity to algae | : EC50 (Pseudokirchneriella subcapitata (algae)): > 1,000 mg/l End point: Biomass Exposure time: 96 h Test Type: static test |
| Toxicity to bacteria | : EC 50 (activated sludge): > 1,000 mg/l End point: Growth rate Exposure time: 30 min Test Type: Static Method: OECD Test Guideline 209 |
| Ecotoxicology Assessment Acute aquatic toxicity | : This product has no known ecotoxicological effects. |
| Chronic aquatic toxicity | : This product has no known ecotoxicological effects. |
| 124-38-9: Toxicity to fish | : Remarks: presumed non-toxic |
| Toxicity to daphnia and other aquatic invertebrates | : Remarks: presumed non-toxic |
| Toxicity to algae | : Remarks: presumed non-toxic |

Persistence and degradability

Components:

111-77-3:

| | |
|------------------|---|
| Biodegradability | : aerobic Inoculum: Activated sludge, domestic, adaption not specified Result: Not readily biodegradable. Biodegradation: 100 % Exposure time: 28 d |
|------------------|---|

124-38-9:

| | |
|------------------|------------------------------|
| Biodegradability | : Remarks: No data available |
|------------------|------------------------------|

Bioaccumulative potential

No data available

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Mobility in soil

No data available

Other adverse effects

No data available

Product:

| | |
|-----------------------------------|---|
| 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 data available |

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

| | |
|------------------------|---|
| Waste from residues | : Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922. |
| Contaminated packaging | : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. |

SECTION 14. TRANSPORT INFORMATION

IATA (International Air Transport Association): UN1950, Aerosols, flammable, 2.1, Flash Point: 83.9 - 91 °C (183.0 - 196 °F)

IMDG (International Maritime Dangerous Goods): UN1950, AEROSOLS, 2.1

DOT (Department of Transportation): UN1950, AEROSOLS, 2.1,

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SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Extremely flammable aerosol, Compressed Gas, Simple Asphyxiant, Teratogen

WHMIS Classification : A: Compressed Gas
B5: Flammable aerosol
D2A: Very Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

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 311/312 Hazards : Fire Hazard
Immediate (Acute) Health Hazard
Chronic (Delayed) Health Hazard
Sudden Release of Pressure Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

| | | |
|----------|-----------------|-------|
| 111-77-3 | Glycol Ether DM | 100 % |
|----------|-----------------|-------|

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (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).

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

| | | |
|----------|-----------------|-------|
| 111-77-3 | Glycol Ether DM | 100 % |
|----------|-----------------|-------|

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. Clean-Water Act, Section 311, Table 117.3.

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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

| | | |
|----------|-----------------|------------|
| 111-77-3 | Glycol Ether DM | 90 - 100 % |
| 124-38-9 | Carbon Dioxide | 1 - 5 % |

Pennsylvania Right To Know

| | | |
|----------|---------------------|------------|
| 111-77-3 | Glycol Ether DM | 90 - 100 % |
| 124-38-9 | Carbon Dioxide | 1 - 5 % |
| 109-86-4 | Ethanol, 2-methoxy- | 0 - 0.1 % |

New Jersey Right To Know

| | | |
|----------|-----------------|------------|
| 111-77-3 | Glycol Ether DM | 90 - 100 % |
| 124-38-9 | Carbon Dioxide | 1 - 5 % |

California Prop 65

| | | |
|----------|---|--|
| | WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. | |
| 109-86-4 | Ethanol, 2-methoxy- | |
| 110-80-5 | 2-ethoxyethanol | |
| 67-56-1 | Methanol | |

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

| | | |
|---|---|---|
| United States TSCA Inventory | : | y (positive listing) (On TSCA Inventory) |
| Canadian Domestic Substances List (DSL) | : | y (positive listing) (All components of this product are on the Canadian DSL.) |
| Australia Inventory of Chemical Substances (AICS) | : | y (positive listing) (On the inventory, or in compliance with the inventory) |
| New Zealand. Inventory of Chemical Substances | : | y (positive listing) (On the inventory, or in compliance with the inventory) |
| Japan. ENCS - Existing and New Chemical Substances Inventory | : | y (positive listing) (On the inventory, |

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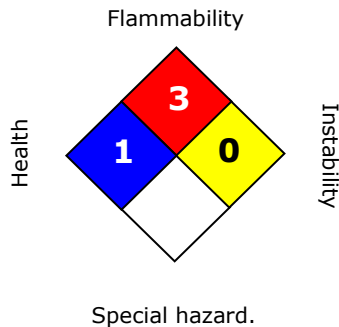
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| | | |
|---|---|---|
| | | or in compliance with the inventory) |
| Korea. Korean Existing Chemicals Inventory (KECI) | : | y (positive listing) (On the inventory, or in compliance with the inventory) |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | : | y (positive listing) (On the inventory, or in compliance with the inventory) |
| China. Inventory of Existing Chemical Substances in China (IECSC) | : | y (positive listing) (On the inventory, or in compliance with the inventory) |

SECTION 16. OTHER INFORMATION **Further information**

NFPA:



HMIS III:

| | |
|------------------------|-----------|
| HEALTH | 1* |
| FLAMMABILITY | 3 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 =Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

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Material number:

16056159, 16056158, 16056157

| Key or legend to abbreviations and acronyms used in the safety data sheet | | | |
|--|--|-------|--|
| ACGIH | American Conference of Government Industrial Hygienists | LD50 | Lethal Dose 50% |
| AICS | Australia, Inventory of Chemical Substances | LOAEL | Lowest Observed Adverse Effect Level |
| DSL | Canada, Domestic Substances List | NFPA | National Fire Protection Agency |
| NDSL | Canada, Non-Domestic Substances List | NIOSH | National Institute for Occupational Safety & Health |
| CNS | Central Nervous System | NTP | National Toxicology Program |
| CAS | Chemical Abstract Service | NZIoC | New Zealand Inventory of Chemicals |
| EC50 | Effective Concentration | NOAEL | No Observable Adverse Effect Level |
| EC50 | Effective Concentration 50% | NOEC | No Observed Effect Concentration |
| EGEST | EOSCA Generic Exposure Scenario Tool | OSHA | Occupational Safety & Health Administration |
| EOSCA | European Oilfield Specialty Chemicals Association | PEL | Permissible Exposure Limit |
| EINECS | European Inventory of Existing Chemical Substances | PICCS | Philippines Inventory of Commercial Chemical Substances |
| MAK | Germany Maximum Concentration Values | PRNT | Presumed Not Toxic |
| GHS | Globally Harmonized System | RCRA | Resource Conservation Recovery Act |
| >= | Greater Than or Equal To | STEL | Short-term Exposure Limit |
| IC50 | Inhibition Concentration 50% | SARA | Superfund Amendments and Reauthorization Act. |
| IARC | International Agency for Research on Cancer | TLV | Threshold Limit Value |
| IECSC | Inventory of Existing Chemical Substances in China | TWA | Time Weighted Average |
| ENCS | Japan, Inventory of Existing and New Chemical Substances | TSCA | Toxic Substance Control Act |
| KECI | Korea, Existing Chemical Inventory | UVCB | Unknown or Variable Composition, Complex Reaction Products, and Biological Materials |
| <= | Less Than or Equal To | WHMIS | Workplace Hazardous Materials Information System |
| LC50 | | | Lethal Concentration 50% |