

SAFETY DATA SHEET



SAFEWING MP IV LAUNCH

Page 1

Substance key: 000000912316

Revision Date: 03/20/2026

Version : 1 - 0 / USA

Date of printing :03/24/2026

SECTION 1. IDENTIFICATION

Identification of the company:

Clariant (Japan), K.K.
3810 Chihama, Kakegawa-si, Shizuoka-ken
, 〒437-1496
Telephone No.: +81 3-5977 7921

Information of the substance/preparation:

Product Stewardship, +1-704-331-7710
e-mail: SDS.NORAM@clariant.com

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name:

SAFEWING MP IV LAUNCH

Material number:

328612

Primary product use:

Aircraft de-icing

Restrictions on use :

Reserved for industrial and professional use.

Chemical family:

Propylene glycol-based mixture

SECTION 2. HAZARDS IDENTIFICATION

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

Hazards for the product as supplied

Not a hazardous substance or mixture.

Other hazards

No additional hazards are known except those derived from the labelling.

GHS label elements

Not a hazardous substance or mixture.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Propylene Glycol	57-55-6*	>= 30 - <= 60	TSC

* Indicates that the identifier is a CAS No.

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CLARIANT^E

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TSC- the actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- General advice : Get medical advice/ attention if you feel unwell.
Do not leave the victim unattended.
- If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.
- Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
Never give anything by mouth to an unconscious person.
Get immediate medical advice/ attention.
- Give oxygen or artificial respiration if needed.
- In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
- If on skin, rinse well with water.
If on clothes, remove clothes.
If skin irritation occurs, seek medical advice/attention.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention immediately if irritation develops and persists.
- Immediately flush eye(s) with plenty of water.
If easy to do, remove contact lens, if worn.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Get medical attention immediately.
- Rinse mouth with water.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : The possible health hazards known are those derived from the labelling (see corresponding section) and/or provided in this section.
The possible symptoms known are those derived from the labelling (see section 2).
- Notes to physician : None known.

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Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray jet
Alcohol-resistant foam
Dry powder
Carbon dioxide (CO₂)
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
- Hazardous combustion products : Carbon oxides
Hydrocarbons
- Further information : Wear full protective clothing and self-contained breathing apparatus.
- In the event of fire and/or explosion do not breathe fumes.
Do not allow run-off from fire fighting to enter drains or water courses.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Remove all sources of ignition.
Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.
Contain spill. Ensure adequate ventilation and wear appropriate personal protective equipment. Collect onto inert absorbent. Place in sealable container. Do not allow to contaminate water sources or sewers.
- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

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Methods and materials for containment and cleaning up : Prevent product from entering drains.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.
Observe the general rules of industrial fire protection

Advice on safe handling : Wash thoroughly after handling.
Keep container closed.

Use only with adequate ventilation/personal protection.
For personal protection see section 8.
Avoid contact with skin, eyes and clothing.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Conditions for safe storage : Keep only in the original container.

Keep containers tightly closed in a dry, cool and well-ventilated place.
Handle and open container with care.
Keep away from sources of ignition - No smoking.

Materials to avoid : When used and handled as intended, none.

Further information on storage stability : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propylene Glycol	57-55-6	TWA	10 mg/m3	US WEEL

Engineering measures : Local ventilation recommended - mechanical ventilation may be used.

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Use engineering controls such as local or general exhaust to maintain airborne concentrations below exposure limits.

Personal protective equipment

Respiratory protection : If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.

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 : Butyl Rubber, PVC Or Neoprene.

Eye protection : Safety glasses with side-shields
Wear safety glasses with side shields or goggles.

Skin and body protection : Wear suitable protective equipment.
Wear protective clothing, including long sleeves and gloves, to prevent skin contact.

Protective measures : Observe the usual precautions for handling chemicals.
Avoid breathing dust or vapour.

Hygiene measures : Observe the usual precautions for handling chemicals.
Keep away from food and drink.
Handle in accordance with good industrial hygiene and safety practice.
Use protective skin cream before handling the product.
Wash hands before breaks and at the end of workday.
Take off immediately all contaminated clothing and wash it before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

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Colour	:	green
Odour	:	slightly perceptible
Odour Threshold	:	not determined
pH	:	7 - 7.5 (68 °F / 20 °C) Method: DIN 19261 Determined in the undiluted form
Melting point	:	-31 °F / -35 °C
Boiling point/boiling range	:	223 °F / 106 °C
Flash point	:	> 212 °F / > 100 °C Method: ASTM D 92 (closed cup)
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	The substance or mixture is not classified as self heating.
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	no data available
Density	:	1.04 g/cm ³ (68 °F / 20 °C) Method: DIN 51757
Solubility(ies) Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	> 752 °F / > 400 °C Method: DIN 51794

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Decomposition temperature	: not required
Viscosity	
Viscosity, dynamic	: approx. 15.000 mPa.s (68 °F / 20 °C)
Viscosity, kinematic	: no data available
Metal corrosion rate	: Not applicable
Particle size	: Not applicable

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 dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	: Keep away from heat and sources of ignition.
Incompatible materials	: not known
Hazardous decomposition products	: When handled and stored appropriately, no dangerous decomposition products are known

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

None known.
Skin contact
Eye contact
Ingestion
Inhalation

Acute toxicity

Not classified

Product:

Acute oral toxicity	: Remarks: no data available
Acute inhalation toxicity	: Remarks: no data available
Acute dermal toxicity	: Acute toxicity estimate: 5,000 mg/kg Method: Calculation method

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Components:

Propylene Glycol:

- Acute oral toxicity : LD50 (Rat, male and female): 22,000 mg/kg
Method: Other
GLP: no
- Acute inhalation toxicity : LC50 (Rabbit, no data available): > 317.042 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist
Method: Other
GLP: no
- Acute dermal toxicity : LD50 (Rabbit, no data available): > 2,000 mg/kg
Method: Other
GLP: no
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified

Product:

Remarks : not tested.

Components:

Propylene Glycol:

- Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : No information available.

Serious eye damage/eye irritation

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

Product:

Result : No eye irritation

Components:

Propylene Glycol:

- Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
GLP : No information available.

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Respiratory or skin sensitisation**Skin sensitisation**

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

Respiratory sensitisation

Not classified

Product:

Result : Does not cause skin sensitisation.

Components:**Propylene Glycol:**

Test Type : Local lymph node assay (LLNA)
Exposure routes : Dermal
Species : Mouse
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.
GLP : No information available.

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : No information available.

Germ cell mutagenicity

Not classified

Product:

Germ cell mutagenicity - Assessment : No information available.

Components:**Propylene Glycol:**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Concentration: 7,4 - 3810 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

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GLP: yes

Genotoxicity in vivo

: Test Type: Chromosome Aberration Test
Species: Rat (male)
Strain: Sprague-Dawley
Cell type: Bone marrow
Application Route: oral (gavage)
Exposure time: 6 - 24 - 48 h
Dose: 30, 2500, and 5000 mg/kg
Method: Other
Result: negative
GLP: no

Test Type: In vivo micronucleus test
Species: Mouse (male)
Cell type: Erythrocytes
Application Route: Intraperitoneal injection
Exposure time: 18 h
Dose: 0, 2500, 5000, 10000, 15000 mg
Method: Other
Result: negative
GLP: No information available.

Germ cell mutagenicity -
Assessment

: In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

Carcinogenicity

Not classified

Product:

Carcinogenicity -
Assessment

: No information available.

Components:

Propylene Glycol:

Carcinogenicity -
Assessment

: Not classifiable as a human carcinogen.

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.

**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.

**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.

NTP

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Reproductive toxicity

Not classified

Product:

Reproductive toxicity - : No information available.
Assessment

No information available.

Components:**Propylene Glycol:**

Effects on fertility : Test Type: Two-generation study
Species: Mouse, male and female
Strain: CD1
Application Route: Drinking water
Dose: 1820 - 4800 - 10100 mg/kg
General Toxicity - Parent: NOAEL: 10,100 mg/kg body weight
General Toxicity F1: NOAEL: 10,100 mg/kg body weight
General Toxicity F2: NOAEL: 10,100 mg/kg body weight
Method: Other
GLP: No information available.

Effects on foetal development : Test Type: Pre-natal
Species: Mouse, female
Strain: CD1
Application Route: oral (gavage)
Dose: 520 - 5200 - 10400 mg/kg
Duration of Single Treatment: 9 d
General Toxicity Maternal: NOAEL: 520 mg/kg body weight
Teratogenicity: NOAEL: 1,040 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity - : No reproductive toxicity to be expected.
Assessment No teratogenic effects to be expected.

STOT - single exposure

Not classified

Product:

Remarks : not tested.

Components:**Propylene Glycol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

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STOT - repeated exposure

Not classified

Product:

Remarks : not tested.

Components:

Propylene Glycol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : not tested.

Components:

Propylene Glycol:

Species : Rat, male and female
NOAEL : 1.700 - 2.100 mg/kg bw/day
Application Route : oral (feed)
Exposure time : 2 a
Number of exposures : daily
Dose : 200, 400, 900, 1700 mg/kg bw
Control Group : yes
Method : Other
GLP : no

Species : Cat, male
NOAEL : 443 mg/kg bw/day
Application Route : oral (feed)
Exposure time : 69 - 94 d
Number of exposures : daily
Dose : 80 - 4239 mg/kg
Control Group : yes
Method : Other
GLP : no

Species : Rat, male and female
LOEL : 0.16 mg/l
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 90 d
Number of exposures : 6 hours/day, 5 days/week
Dose : 0,16 - 1,01 - 2,18 mg/l
Control Group : yes
Method : Other
GLP : No information available.

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Species : Mouse, female
NOAEL : 0.02
Application Route : Dermal
Exposure time : Lifespan
Number of exposures : 2x / w
Dose : 10-50-100% / 0.02 ml acetone
Control Group : yes
Method : Other
GLP : no
Remarks : No pathological findings

Aspiration toxicity

Not classified

Product:

no data available

Components:

Propylene Glycol:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : Remarks: not tested.

Toxicity to daphnia and other aquatic invertebrates : Remarks: not tested.

Toxicity to algae/aquatic plants : Remarks: not tested.

Toxicity to microorganisms : Remarks: not tested.

Components:

Propylene Glycol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l

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End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: Other
GLP: no

Toxicity to daphnia and other aquatic invertebrates : LC50 (Mysidopsis bahia (opossum shrimp)): 18,800 mg/l

End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: Other
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)):

19,000 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

ErC50 (Skeletonema costatum (marine diatom)): 19,100 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to fish (Chronic toxicity) : Chronic Toxicity Value (Fish): 2,500 mg/l

End point: Other
Exposure time: 30 d
Method: Other
GLP: no

Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia spec.): 13,020 mg/l

End point: Reproduction rate
Exposure time: 7 d
Test Type: semi-static test
Analytical monitoring: yes
Method: Other
GLP: No information available.

Toxicity to microorganisms : NOEC (Pseudomonas putida): > 20,000 mg/l

End point: Growth rate

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Exposure time: 18 h
Test Type: Growth inhibition
Analytical monitoring: no
Method: Other
GLP: no

Sediment toxicity : LC50: 6983 mg/kg dry weight (d.w.)
Analytical monitoring: yes
Solvent: no
Duration: 10 d
Test Type: static test
Sediment: Natural sediment
Basis for effect: mortality
Method: Other
GLP: yes

Persistence and degradability

Product:

Biodegradability : Remarks: not tested.

Components:

Propylene Glycol:

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 100 mg/l ThOD
Biochemical Oxygen Demand (BOD)
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

aerobic
Inoculum: activated sludge
Concentration: 50.3 mg/l
Carbon dioxide (CO₂)
Result: Readily biodegradable.
Biodegradation: 90.6 %
Exposure time: 64 d
Method: OECD Test Guideline 306
GLP: yes

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: not tested.

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Components:

Propylene Glycol:

Bioaccumulation : Bioconcentration factor (BCF): 0.09
Method: calculated
GLP: no
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Partition coefficient: n-octanol/water : log Pow: -1.07 (68.9 °F / 20.5 °C)
pH: 6.3
Method: Regulation (EC) No. 440/2008, Annex, A.8
GLP: yes

Mobility in soil

Product:

Distribution among environmental compartments : Remarks: not tested.

Components:

Propylene Glycol:

Distribution among environmental compartments : Adsorption/Soil
Medium: water - soil
log Koc: 0.46
Method: other (calculated)

Stability in soil : Test Type: Laboratory
Soil temperature: 77 °F / 25 °C
Radio label: no
Percentage dissipation: 96 - 98 %
Method: Other
GLP: no

Other adverse effects

Product:

Environmental fate and pathways : Remarks: no data available

Additional ecological information : no data available

Components:

Propylene Glycol:

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Act

: This product, if discarded as sold, is not a Federal RCRA hazardous waste.

Waste Code

: NONE

Waste from residues

: Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Contaminated packaging

: Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA not restricted

IMDG not restricted

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

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

Clean Air Act

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This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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):

Propylene Glycol

57-55-6

>= 50 - < 70 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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

This product does not contain any priority pollutants related to the U.S. Clean Water Act

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

US TSCA : All components are compliant with the TSCA Inventory Notification (Active) rule.

CA. DSL : One or more substances contained in this product is not listed on the DSL. There is an import restriction that applies to the importer of record that may allow the importation of limited quantities. The importer of record must ensure they do not exceed any allowable limits.

TSCA list

TSCA - 5(a) Significant New Use Rule List of Chemicals: The following substance(s) is/are subject to a Significant New Use Rule:

2-Methylisothiazolin-3-one

2682-20-4

See 40 CFR 721.4525; Proposed Rule

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D): No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

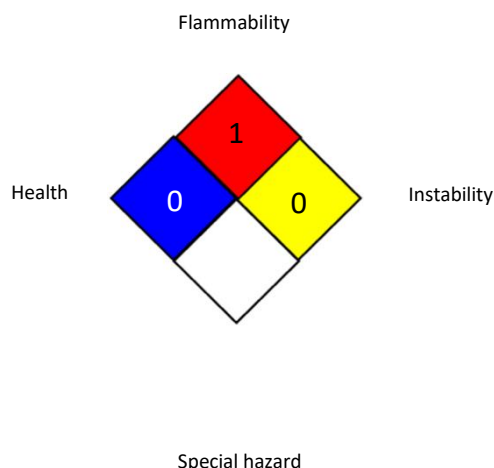
Further information

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NFPA 704:**Full text of other abbreviations**

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
US WEEL / TWA : 8-hr TWA

AIIC - 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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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 - 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 - Organisation 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,

SAFETY DATA SHEET



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Version : 1 - 0 / USA

Date of printing :03/24/2026

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

Observe national and local legal requirements

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Revision Date : 03/20/2026

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