



Safety Data Sheet

Material Name: SAFETY KLEEN NF1000 ICE BREAKER

SDS ID: 820043

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

SAFETY KLEEN NF1000 ICE BREAKER

Product Code

6570, 6571, 32170

Synonyms

NF1000 ICE BREAKER WINTER BLEND
NF1000 ICE BREAKER SUMMER BLEND
SAFETY-KLEEN BUG BUSTER
Premixed, Non-Flammable Windshield Washer Fluid

Product Use Recommended Use

Automotive windshield washer fluid, winter and summer blends. If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

Restrictions on Use

THIS PRODUCT IS NOT FOR SALE OR USE IN THE STATES OF ARIZONA, CALIFORNIA, GEORGIA, OREGON, AND TEXAS.

MANUFACTURER/SUPPLIER

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Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with Schedule 1 of Hazardous Products Regulations (HPR) (SOR/2015-17)

Acute Toxicity – Oral, Dermal, Inhalation - Category 3
Serious Eye Damage/Eye Irritation - Category 2A
Specific Target Organ Toxicity - Single Exposure - Category 1, Category 3

GHS Label Elements

Symbol(s)



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Signal Word

Danger

Hazard Statement(s)

Toxic if swallowed in contact with skin, or inhaled.
Causes serious eye irritation.
Causes damage to organs.
May cause drowsiness or dizziness.

Precautionary Statement(s)

Prevention

Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Response

In case of fire: Use carbon dioxide, alcohol-resistant foam, dry chemical, water fog.
If exposed or concerned: Call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.

Storage

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

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

None known.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
7732-18-5	Water	60-80
67-56-1	Methanol	25-35
57-55-6	1,2-Propylene glycol	1-5

Section 4 - FIRST AID MEASURES

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

Skin

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

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Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth.

Most Important Symptoms/Effects

Acute

Toxic if swallowed, toxic if inhaled, toxic in contact with skin, serious eye irritation. May cause drowsiness or dizziness. Causes damage to organs.

Delayed

No information on significant adverse effects.

Indication of any immediate medical attention and special treatment needed

For methanol poisoning, consider administering ethanol orally or 4-methylpyrazole intravenously or orally. Antidote should be administered by qualified medical personnel. Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use carbon dioxide, alcohol-resistant foam, dry chemical, water fog.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Special Hazards Arising from the Chemical

Slight fire hazard. Avoid friction, static electricity and sparks.

Hazardous Combustion Products

Burning may produce carbon monoxide and unidentified organic compounds.

Fire Fighting Measures

The material does not sustain combustion as tested in accordance with the requirements outlined in the Code of Federal Regulations, Title 49 Part 173, Appendix H and the United Nations Transport of Dangerous Goods, Manual of Tests and Criteria (Test Method L.2). Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Apply water from a protected location or from a safe distance. Dike for later disposal.

Special Protective Equipment and Precautions for Firefighters

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal. Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal. There may be

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specific regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see SECTION 15: REGULATORY INFORMATION.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Do not eat, drink or smoke when using this product. Do not breathe vapor or mist.

Conditions for Safe Storage, Including any Incompatibilities

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

Incompatible Materials

Acids, alkalis, oxidizing agents, reactive halogens, or reactive metals.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION
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Component Exposure Limits

Methanol	67-56-1
Alberta	200 ppm TWA ; 262 mg/m3 TWA; 250 ppm STEL ; 328 mg/m3 STEL Substance may be readily absorbed through intact skin
British Columbia, Northwest Territories, Nunavut	200 ppm TWA; Skin notation; 250 ppm STEL
Manitoba	200 ppm TWA; Skin - potential for cutaneous absorption; Skin - potential significant contribution to overall exposure by the cutaneous route
New Brunswick	200 ppm TWA ; 262 mg/m3 TWA; 250 ppm STEL ; 328 mg/m3 STEL Skin - potential for cutaneous absorption
Nova Scotia	200 ppm TWA; 250 ppm STEL; Skin - potential significant contribution to overall exposure by the cutaneous route
Ontario	200 ppm TWA; 250 ppm STEL; Danger of cutaneous absorption
Prince Edward Island	200 ppm TWA; 250 ppm STEL
Quebec	200 ppm TWA EV ; 262 mg/m3 TWA EV; 250 ppm STEV ; 328 mg/m3 STEV Skin designation
Saskatchewan	200 ppm TWA; 250 ppm STEL; Potentially harmful after absorption through skin or mucous membranes
Yukon	200 ppm TWA ; 260 mg/m3 TWA; 250 ppm STEL ; 310 mg/m3 STEL Skin notation
ACGIH	200 ppm TWA; 250 ppm STEL; Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA Final	200 ppm TWA; 260 mg/m3 TWA

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OSHA Vacated	200 ppm TWA; 260 mg/m ³ TWA; 250 ppm STEL; 325 mg/m ³ STEL; Prevent or reduce skin absorption
NIOSH	200 ppm TWA; 260 mg/m ³ TWA; 250 ppm STEL; 325 mg/m ³ STEL; Potential for dermal absorption
1,2-Propylene glycol	57-55-6
Ontario	10 mg/m ³ TWA (for assessing the visibility in a work environment where 1,2-Propylene glycol aerosol is present) aerosol only ; 50 ppm TWA aerosol and vapor ; 155 mg/m ³ TWA aerosol and vapor

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

Methanol (67-56-1)

15 mg/l Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

Respiratory Protection

Protection provided by air purifying respirators is limited. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

Glove Recommendations

A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

Protective Materials

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses, gloves, and lab coat or apron.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, blue liquid.	Physical State	Liquid
Odor	Alcohol odor.	Color	Blue
Odor Threshold	Not available	pH	Not available
Melting Point	Not available	Boiling Point	81.1 - 100 °C (178 - 212 °F)
Boiling Point Range	Not available	Freezing point	Not available

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Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	Not available	Flash Point	>100°F(37°C)
Lower Explosive Limit	5.5 %	Decomposition temperature	Not available
Upper Explosive Limit	36.5 %	Vapor Pressure	40 mmHg@70°F °C (21.2 °C)
Vapor Density (air=1)	1.1 (Air = 1)	Specific Gravity (water=1)	0.96
Water Solubility	Complete	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	Not available
Molecular Weight	Not available		
Volatile Organic Compounds (As Regulated)	WINTER BLEND: 23 WT%; 1.9 LB/US gal; 228 g/L; Non-photochemically reactive SUMMER BLEND: 9.0 WT%; 0.74 LB/US gal; 89 g/L; Non-photochemically reactive Methanol VP approx. 96 mmHg @ 20°C		

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

Acids, alkalis, oxidizing agents, reactive halogens, or reactive metals.

Hazardous decomposition products

None under normal temperatures and pressures.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

Toxic if inhaled. May cause drowsiness or dizziness.

Skin Contact

May cause irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

Toxic if swallowed.

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Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Methanol (67-56-1)

Oral LD50 Rat 6200 mg/kg; Inhalation LC50 Rat 22500 ppm 8 h

1,2-Propylene glycol (57-55-6)

Oral LD50 Rat 20 g/kg; Dermal LD50 Rabbit 20800 mg/kg

Product Toxicity Data

Acute Toxicity Estimate

Inhalation - Vapor	> 20 mg/L
Oral	> 2000 mg/kg

Immediate Effects

Toxic if swallowed or in contact with skin. Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to organs.

Delayed Effects

No information available for the product.

Irritation/Corrosivity Data

Causes serious eye irritation.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

Germ Cell Mutagenicity

Based on best current information, there is no known mutagenicity associated with this product.

Tumorigenic Data

No data available for this product.

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

Central nervous system, retina, systemic toxicity.

Specific Target Organ Toxicity - Repeated Exposure

No information on significant adverse effects.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

May cause skin disorders, eye disorders, systemic disorders, central nervous system disorders.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

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Component Analysis - Aquatic Toxicity

Methanol	67-56-1
Fish:	LC50 96 h Pimephales promelas 28200 mg/L [flow-through]; LC50 96 h Pimephales promelas >100 mg/L [static]; LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static]; LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through]
1,2-Propylene glycol	57-55-6
Fish:	LC50 96 h Oncorhynchus mykiss 51600 mg/L [static]; LC50 96 h Oncorhynchus mykiss 41 - 47 mL/L [static]; LC50 96 h Pimephales promelas 51400 mg/L [static]; LC50 96 h Pimephales promelas 710 mg/L
Algae:	EC50 96 h Pseudokirchneriella subcapitata 19000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L [Static] EPA

Persistence and Degradability

The product is biodegradable.

Bioaccumulative Potential

Low bioconcentration.

Mobility

Expected to have high mobility in soil.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable federal, state and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

WINTER BLEND < 2900 GAL; SUMMER BLEND < 7500 GAL: NOT REGULATED

WINTER BLEND > 2900 GAL; SUMMER BLEND > 7500 GAL:

Shipping Name: Environmentally Hazardous Substance, Liquid, n.o.s., Methanol

UN/NA #: UN3082 Hazard **Class:** 9 **Packing Group:** III

Additional Information: Methanol RQ: 5000g (2270 kg)

TDG Information: Not regulated for transport.

Component Marine Pollutants (IMDG)

Not a marine pollutant.

International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Methanol	67-56-1
IBC Code:	Category Y

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Section 15 - REGULATORY INFORMATION

Canada Regulations

CEPA - Priority Substances List

None of this product's components are on the list.

Ozone Depleting Substances

None of this product's components are on the list.

Council of Ministers of the Environment - Soil Quality Guidelines

None of this product's components are on the list.

Council of Ministers of the Environment - Water Quality Guidelines

None of this product's components are on the list.

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Methanol	67-56-1
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C) 2016 reporting categories

Acute Health: Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

Component Analysis - Inventory

Water (7732-18-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes

Methanol (67-56-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes

1,2-Propylene glycol (57-55-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

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Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

Summary of Changes

2017-07-05: Correction to product part number.

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; NDSL - Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplied to the user.