
Material Safety Data Sheet

1000 Series Wipers pre-saturated with 70% IPA

Section 1: Product and company identification

Product Name: 1000 Series wipers (100% polyester) pre-saturated with 70% IPA

Use of the product: For disinfectant use in Critical Environment.

Details of Supplier/Manufacturer:

Section 2: Hazards identification

Emergency overview: The product are pre-saturated wipers with alcohol-like odor and colorless appearance. The product needs to mark "WARNING" signal word on its package.

Hazard statement: Highly flammable liquid and vapour. Cause respiratory tract, eye and skin irritation. Excessive inhalation may cause drowsiness or dizziness.

Routes of entry: Dermal contact. Eye contact. Inhalation, Ingestion.

Precautionary measures:

Keep away from heat, hot surfaces, sparks, open flames and ignition sources. No smoking. Keep cool. Wear protective gloves/protective clothing/eye protection/face protection. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. 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.

Dispose of waste according to applicable legislation.

GHS hazardous category:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity-single exposure: STOT SE 3

Label elements:

Regulation (EC) No. 1272/2008

Hazard components for labelling: propan-2-ol

Signal word: Danger

Pictograms:



Hazard statement: Highly flammable liquid and vapour. Cause serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

Potential acute health effects:

Inhalation: irritating to respiratory system.

Ingestion: No known significant effects or critical hazards.

Skin: irritating to skin.

Eye: irritating to eye.

Potential chronic health effects:

Chronic effects: Contains material that may cause target organ damage, based on animal data.

Carcinogenic effects: A4 (Not classifiable for human or animal) by ACGIH, 3 (Not classifiable for human.) by IARC.

Mutagenic effects: Not available.

Teratogenic effects: Not available.

Developmental toxicity: Classified reproductive system/toxin/female, development toxin [possible].

Target organs: Contains material which may cause damage to the following organs: central nervous system.

Section 3: Composition/information on ingredients

Name	CAS number	Content %
Propan-2-ol (Isopropyl alcohol)	67-63-0	70

The final product contains solid 100% polyester wipers that are pre-wetted with the above compositions. Fill volume is controlled to ensure that no free liquid is present in the finished product packaging.

Section 4: First aid measures

General information: remove affected person from the danger area and lay down. Remove

casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Remove contaminated, saturated clothing immediately. Contact a physician immediately.

Inhalation: Move exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms appear.

Serious inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Get medical attention.

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. If persistent irritation occurs, get medical attention.

Skin Contact: Put off the contaminated clothes, wash promptly with soap and water if available. If irritation develops, obtain medical attention.

Ingestion: If accidentally swallowed, rinse the mouth with plenty of water (only if the person is conscious). Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get medical attention if symptoms appear.

Advice to physicians: Dermatitis may result from prolonged or repeated exposure. Symptoms may develop several hours following exposure, medical observation therefore necessary for at least 48 hours.

Indication of any immediate medical attention and special treatment needed: First aid, decontamination, treat symptomatically.

Section 5: Fire-fighting measures

Flammability of the product: Flammable.

Suitable extinguishing media: Dry chemical powder, carbon dioxide, alcohol resistant foam, water spray jet or fog. Sand or earth may be used for small fires only.

Unsuitable extinguishing media: Full water jet.

Protective equipment: Special protective equipment for firefighters: full protective clothing. In case of fire: wear self-contained breathing apparatus.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. Nitrogen oxides. Vapours may form explosive mixtures with air.

Other information: Keep adjacent containers cool by spraying with water. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface

water.

Section 6: Accidental release measures

Personal precautions: Shut off all ignition sources. Provide adequate ventilation. Put on appropriate personal protective equipment.

Environmental precautions: Do not allow to enter into surface water or drains. Cover drains. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Section 7: Handling and storage

Handling: Avoid contact with skin, eye and clothing. Use only with adequate ventilation. Avoid breathing vapour or mist. Keep away from heat, sparks and flame. Wash thoroughly after handling.

Storage: Keep container in a cool, dry, well-ventilated area. Keep container tightly closed and sealed until ready for use. Keep away from all possible sources of ignition (heat, spark or open flame). Keep/Store only in original container.

Advice on storage compatibility: Keep away from food and feedingstuffs, oxidizing agent.

Section 8: Exposure controls/personal protection

Chemical Name	Exposure limit(s)
Isopropanol (Isopropyl alcohol)	400 ppm US OSHA PEL-TWA 200 ppm ACGIH TLV-TWA, 400ppm ACGIH TLV-STEL 200 ppm DFG MAK 400 ppm UK 8hr TWA, 500ppm UK 15min

Occupational exposure standards: Isopropyl alcohol TLV/TWA 983 mg/m³

Recommended monitoring measures: Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/ or the necessity to use respiratory protective equipment.

Engineering control measures: Provide adequate ventilation as well as local exhaust at critical locations.

Protective and hygiene measures: Work in well-ventilated areas or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes, and clothes. Wash hands and face before breaks and after work and take a shower if necessary. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: eye glasses with side protection eye/face protection.

Hand protection: Wear gloves appropriate for work or tasking being performed.

Skin/Body protection: Wear suitable clothes.

Section 9: Physical and chemical properties

Physical state	Pre-saturated wipers
Appearance and Odor	Colorless liquid with alcohol-like odor on a polyester wipers.
Boiling point/range	80-83°C (solution)
Melting point/range	- 90°C
Specific Gravity(water=1)	<1.0 (solution)
Vapor pressure	33 mmHg@20°C(Isopropanol (Isopropyl alcohol))
Vapor density (air=1)	2.07
solubility	Solution-completely soluble in water
pH	Not available
Partition coefficient (n-octanol/water)	Not available
Evaporation Rate (Butyl acetate=1)	Not available
Percent Volatile by Volume (%)	80%
Volatile Organic Carbon Compounds (VOC)(g/L)	485
Flashpoint	44 °F(6.7°C)
Flammable Limits in Air % by Volume:	LEL(Lower):2.0% UEL(Upper):12.7%

Section 10: Stability and reactivity

Reactivity: The product is stable under storage at normal ambient temperature.

Chemical stability: The substance is chemically stable under recommended conditions of storage, use and temperature. Reacts with strong oxidising agents. Reacts with strong acids.

Possibility of hazardous reactions: No information available.

Conditions to avoid: Keep away from heat, hot sources, sparks, open flames and other ignitions.

Materials to avoid: Strong oxidising agents. Strong acids.

Section 11: Toxicological information

Basis for assessment: Information given is based on product data.

Acute toxicity - oral: LD50 > 2000 mg/kg

Acute toxicity - dermal: LD50 > 2000 mg/kg

Acute toxicity - inhalation: LC50 > 5 mg/l

Eye irritation: Slight irritant.

Skin irritation: Slight irritant.

Respiratory irritation: Irritant in animal studies.

Skin sensitization: May cause skin sensitization.

(Sub) chronic toxicity: Repeated exposure causes liver damage.

Human effects: Repeated exposure can lead to allergic contact dermatitis. High exposures can cause drowsiness and dizziness. Can cause liver damage.

Section 12: Ecological information

Mobility: Dissolve in water. Lost within a day by evaporation and dissolution. Large volumes may penetrate soil and could contaminate groundwater.

Persistence/Degradability: Readily biodegradable. Oxidize rapidly by photochemical in air.

Bioaccumulation: Do not bio-accumulate.

Acute toxicity - fish: LC50 > 100 mg/l

Acute toxicity - daphnia: EC50 > 100 mg/l

Acute toxicity - algae: IC50 > 100 mg/l

Acute toxicity - bacteria: IC50 > 100 mg/l

Sewage treatment: Practically non-toxic, EC50 > 100 mg/l, to organisms in sewage treatment plants.

Other information: Pose a significant risk of oxygen depletion in aquatic systems.

Section 13: Disposal considerations

Waste disposal: Dispose of waste should be in accordance with applicable regional, national, and local laws and regulations. Incineration or landfill should only be considered when recycling is not feasible.

Section 14: Disposal considerations

International transport regulations

Regulatory information	UN number	UN proper shipping name	Transport hazard classes	Packing information
Land transport (ADR/RID)	UN 1219	ISOPROPANOL (ISOPROPYL ALCOHOL)	3	Packing group: II Hazard label: 3 Classification code: F1 Special Provisions: 601 Limited quantity: 1L Excepted quantity: E2 Transport category: 2 Hazard No: 33 Tunnel restriction code: D/E

Inland waterways transport (AND)	UN 1219	ISOPROPANOL (ISOPROPYL ALCOHOL)	3	Packing group: II Hazard label: 3 Classification code: F1 Special Provisions: 601 Limited quantity: 1L Excepted quantity: E2
Marine transport (IMDG)	UN 1219	ISOPROPANOL (ISOPROPYL ALCOHOL)	3	Packing group: II Hazard label: 3 Special Provisions: - Limited quantity: 1L Excepted quantity: E2 EmS: F-E, S-D
Air transport (ICAO)	UN 1219	ISOPROPANOL (ISOPROPYL ALCOHOL)	3	Packing group: II Hazard label: 3 Special Provisions: A180 Limited quantity passenger: 1L Passenger LQ: Y341 Expected quantity: E2 IATA-packing instructions-Passenger: 353 IATA-max. quantity -Passenger: 5L IATA-packing instructions-Cargo: 364 IATA-max. quantity-Cargo: 60L
Environmental hazards		Environmentally hazardous: NO		
Specific precaution for user:		No information available		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		No information available		

Section 15: Regulatory information

US Regulations

EPA Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

SARA 302 Listed Chemicals: None.

SARA 311/312 Hazard Categories: Fire Hazard Acute Health

SARA 313 This Product Contains the Following Chemicals Subject to Annual Release

Reporting Requirements under the SARA Section 313(40CFR372): None

California Proposition 65: This product does not contain chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.

International Regulations

EU Labeling:

F-Highly flammable

Xi-Irritant

R11-Highly flammable.

R36-Irritating to eyes.

R67-Vapours may cause drowsiness and dizziness.

S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S16-Keep away from sources of ignition-No smoking.

S51-Use only in well ventilated areas.

S35- This material and its container must be disposed of in a safe way.

Canadian CEPA: All of the components are either listed on or exempted from the Domestic Substances List (DSL).

Canadian WHMIS Classification:

Class B-2

Class D-2-B

Section 16: Other information

HMIS Rating: Health 1 Fire 3 Reactivity 0

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

Xi- Irritant

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R11-Highly flammable.

R36-Irritating to eyes.

R67- Vapours may cause drowsiness and dizziness.

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