

Material Safety Data Sheet

BrightShine Reflector Wipes

Section 1: Identification of the substance and the company

Product identifier: BrightShine Reflector Wipes

Substance name: Ethanol 65%, 400ppm

CAS No.: 67-63-0

Chemical formula: C₂H₆O

Application: Cleans reflectors, lighting equipment and more

Contact information:

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Section 2: Hazards identification

Product definition: mixture of substances.

Potential acute health effects:

Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion and of inhalation.

Potential chronic health effects:

Carcinogenic effects: not available.

Mutagenic effects: not available.

Teratogenic effects: not available.

Developmental toxicity: not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 3: Composition and information on ingredients

Main ingredients in composition:

Chemical name	Chemical formula	% weight
Ethanol	C ₂ H ₆ O	65

Section 4: First aid measures

Eye contact:

Check for and remove any contact lenses. In case of contact of substance with eyes, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if the irritation occurs.

Skin contact:

Rinse immediately and thoroughly with water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Inhalation:

If inhaled, make sure to breathe fresh air. If breathing is difficult, provide extra oxygen and get medical attention.

Ingestion:

Rinse mouth thoroughly. Do not induce vomiting, unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of the material are swallowed, contact a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5: Firefighting measures

Flammability of the product: will burn if involved in a fire.

Auto-ignition temperature: 399°C/750°F

Flash points: 12°C/54°F

LEL / UEL: 2 / 12

Firefighting media and instructions:

Small fire: use dry chemical powder.

Large fire: use water spray, carbon dioxide or foam.

Section 6: Accidental release measures

Spill Procedure:

Provide adequate ventilation.

Section 7: Handling and storage

Precautions:

Wash thoroughly after handling. Avoid contact with eyes containing material.

Storage:

Keep away from sources of ignition. Store in a cool, dry, well ventilated area.

Section 8: Exposure controls and personal protection

Engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection:

Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact.

Ventilations:

Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

Section 9: Physical and chemical properties

Physical State: Liquid

Odor: Alcohol

Solubility: Miscible

Evaporation Rate: 1.5 (Butyl Acetate=1)

Boiling Point: 78.2°C/172.8°F

Specific Gravity: 0.875 @20°C/68°F

Vapor Pressure: 40 mmHg @23.8°C /74.8°F

Vapor Density: 2.1 (Air=1)

pH: N/a

Section 10: Stability and reactivity

Stability: The substance is stable at normal temperatures and pressures

Avoid temperatures over 40°C /104°F, ignition sources and incompatible substances.

Incompatibility with various substances: Strong oxidizers, acetaldehyde, chlorine, ethylene oxide, acids and isocyanates, hydrogen+palladium, nitroform, oleum, phosgene, oxygen, aluminum, aluminum triisopropoxide, rinitromethane, barium perchlorate, tetrafluoroborate, chromium trioxide, sodiumdichromate, sulfuric acid..

Polymerization: Will not occur

Decomposition: Carbon monoxide, carbon dioxide, acrid smoke and fumes

Section 11: Toxicological information

Routes of entry: Absorbed through skin, eye contact, inhalation and ingestion.

Toxicity to animals: Not determined.

Chronic effects on humans: Not available.

Other toxic effects on humans: Slightly hazardous in case of skin contact (irritant,

permeator), of ingestion and of inhalation.

Special remarks on toxicity to animals: Not available.

Special remarks on chronic effects on humans: Not available.

Special remarks on other toxic effects on humans: Not available.

Section 12: Ecological information

General information: Avoid runoff into storms and sewers, which lead into waterways.

Water runoff can cause environmental damage.

Environmental Impact Data (percentage by weight):

CFC: 0

Cl.Solv: 0

HCFC: 0

HFC: 0

VOC: 70

ODP: 0

Section 13: Disposal considerations

Waste Disposal:

Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff can cause environmental damage.

Section 14: Transport Information

Ground: Consumer Commodity, ORM-D. Refer to CFR 49 (USA).

Air: Shipper must be trained and certified. Refer to IATA Dangerous Good Regulations.

Subsidiary Risk- nil, Use UN Certified outer cartons and tape all seams. Hazard Label required-Flammable liquid.

Sea: Shipper must be trained and certified. Refer to IMDG regulations.

Section 15: Regulatory information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4).

This product contains 70% of 2-propanol (CAS# 67-63-0), a toxic chemical subject to the reporting requirements.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45

This product does contain 70% of 2-propanol (CAS# 67-63-0) a chemical subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA) All substances are TSCA listed.

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain any chemicals listed as hazardous air pollutants.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA) This product does not contain any chemicals listed.

RoHS

(The restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2004).

This product is RoHS compliant.

Section 16: Other information

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This material safety data sheet is provided as an information resource only. Dutch Lighting Innovations believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.