

SAFETY DATA SHEET

PermaClear Windscreen StayClean (Water Based with fragrance)

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: PERMACLEAR WINDSCREEN STAYCLEAN

SUPPLIER: PERMACLEAR LIMITED
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2 COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT NAME | CAS No | CONTENTS (%) | EC Number (Class) | Risk Classification (R No.) |
|-------------------------|-----------|-------------------|----------------------|--------------------------------|
| Isopropyl Alcohol | 67-63-0 | < 14% | 200-661-7 | F; R11 Xi; R36 R67 |
| Citric Acid Monohydrate | 5949-29-1 | < 5% | | Xi; R36 |

Occupational Exposure Limit(s), if available, are listed in section 8

3 HAZARDS IDENTIFICATION

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments

Classification : Xi, R36
R67
R12

Effects & Symptoms

Eye Contact Hazardous in case of eye contact (irritant)
Aggravating conditions Repeated or prolonged exposure is not known to aggravate medical condition.

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| 4 | FIRST AID MEASURES |
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| INHILATION | If inhaled, remove the exposed person to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get prompt medical attention. |
| INGESTION | 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 a collar, belt or waistband. Get medical attention if symptoms appear. |
| SKIN: | Wash with soap and water. Get medical attention if irritation develops. Cold water may be used. |
| EYES: | Check for and remove contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention. |

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| 5 | FIRE FIGHTING MEASURES |
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| EXTINGUISHING MEDIA: Suitable | Small Fire: Use dry chemical powder Large Fire : Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build up, auto-ignition or explosion. |
| Special fire-fighting procedures | Fire-fighters should wear positive pressure self contained breathing apparatus (SCBA) and full turnout gear. |
| Protection of fire-fighters | Be sure to use approved/certified respirator or equivalent. |

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| 6 | ACCIDENTAL RELEASE MEASURES |
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| Personal precautions | : Splash goggles, full suit, boots, gloves. Suggested protective clothing might not be sufficient. Consult a specialist. |
| Environmental Precautions & Clean Up methods: | Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non combustible material. Do not touch spilled material. Prevent entry in to sewers, basements or confined areas; dike if needed. |

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

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| 7 | HANDLING & STORAGE |
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| Handling: | Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe gas/fumes/vapour/spray. If ingested seek medical advice immediately and show the container or label. |
| Storage: | Store in segregated and approved area. Keep container in a cool well ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of (spark or flame) |
| <u>PACKAGING MATERIALS:</u> Recommended use: | Use original container. |

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering measures: Provide exhaust ventilation or other engineering controls to keep airborne concentrations of vapour below their respective occupational exposure limits. Ensure that eye wash stations and safety showers are proximal to the work station location.

Hygiene measures: Wash hands after handling the compound and before eating, smoking, using lavatory, and at the end of the day.

| INGREDIENT NAME | OCCUPATIONAL EXPOSURE LIMITS |
|-------------------------|--|
| Isopropyl Alcohol | EH40 (United Kingdom UK) TWA: 999 mg / cum. Metre. |
| Citric Acid Monohydrate | Not available |

Recommended monitoring procedures:

Personal Protective Equipment

Respiratory system: Wear appropriate respirator when ventilation is inadequate.

Skin & body: Lab. coat

Eyes: Splash goggles.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
COLOUR: Clear Light Blue
ODOUR/TASTE: Alcohol
pH: Not available
BOILING POINT: The lowest known value is 81.5°C (178.7°F) (Isopropyl Alcohol)
Weighted average 97.08°C (206.7°F)
MELTING POINT: May start to solidify at 0°C (32°F) based on data for water.
Weighted average -13.89°C (7°F)
FLASH POINT: The lowest known value is CLOSED CUP between -18°C (0°F) and 23°C (73°F)
- Isopropyl alcohol

FIRE HAZARDS IN
PRESENCE OF VARIOUS
SUBSTANCES:

Highly flammable in presence of open flames, sparks and static discharge

AUTO-IGNITION TEMP: The lowest known value is 400°C (752°F) (Isopropyl Alcohol)

EXPLOSIVE PROPERTIES:

Risks of explosion of the product in presence of mechanical impact –

Not available

Risks of explosion of the product in the presence of static discharge –

Not available

OXIDISING PROPERTIES:

Not available

VAPOUR PRESSURE: The highest known value is 4.3 kPa (32 mmHg) (at 20°C) (Isopropyl Alcohol)

DENSITY: Weighted average 0.96 g / cub. Cm

SOLUBILITY: Easily soluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.

OCTANOL/WATER PARTITION COEFFICIENT:

The product is equally soluble in octanol and water.

10 STABILITY AND REACTIVITY

Stability: This product is stable.

11 TOXICOLOGICAL INFORMATION

Acute toxicity

| <u>Ingredient Name</u> | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|-------------------------|-------------|---------------|--------------|----------------|
| Isopropyl Alcohol | LD50 | 5054 mg/kg | Oral | Rat |
| | LD50 | 12800 mg/kg | Dermal | Rabbit |
| Citric Acid Monohydrate | LD50 | 11700 mg/kg | Oral | Rat |

LOCAL EFFECTS

Eye irritation Hazardous in eye contact (irritant)

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

Development and teratogenic Effects:

12 ECOLOGICAL INFORMATION

DEGRADABILITY All organic material contained in this preparation readily biodegrades.

13 DISPOSAL CONSIDERATIONS

Methods of disposal ; waste of residues ; contaminated packaging:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste classification: Not applicable

European waste catalogue: Not available.

Hazardous waste: The classification of the product may meet the criteria for a hazardous waste.

14 TRANSPORT INFORMATION – FORMULATED MIXTURE

THIS FORMULATED/FINISHED PRODUCT IS NOT RESTRICTED FOR TRANSPORT.

ROAD:
AIR:
SEA:
RAIL:

15 REGULATORY INFORMATION

Safety phrases: S2 – Keep out of reach of children
S24 - Avoid contact with the skin
S25 - Avoid contact with the eyes
S62 – If swallowed, do not induce vomiting, seek medical advice immediately and show container or label.

Product use: Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC including amendments and the intended use
- Consumer applications.

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| 16 | OTHER INFORMATION |
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Date of printing 26/09/2009 All current legislation DPD, REACH, CLP, Detergent Regs. and details reviewed and amended as appropriate

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Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.