



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

glossary_trade_name Isopropyl alcohol
MCH-0116-51

Identification number 603-117-00-0

Registration number 01-2119457558-25-XXXX

Synonyms None.

Issue date 06-Jun-2014

Version number 04

Revision date 11-May-2016

Supersedes date 09-May-2016

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Not available.

Uses advised against None known.

Company identification HP Italy S.r.l.
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable liquids Category 2 H225 - Highly flammable liquid and vapor.

Health hazards

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye irritation.

Specific target organ toxicity - single exposure Category 3 narcotic effects H336 - May cause drowsiness or dizziness.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Isopropyl alcohol

Hazard pictograms



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

Prevention

P260 Do not breathe mist/vapors/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P243 Take precautionary measures against static discharge.
P233 Keep container tightly closed.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information

None.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|-------------------|------|------------------|------------------------|--------------|-------|
| Isopropyl alcohol | <100 | | 01-2119457558-25-XXXX | 603-117-00-0 | |

Classification: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336

SECTION 4: First aid measures

General information Not available.

4.1. Description of first aid measures

Inhalation Move to fresh air. If symptoms persist, get medical attention.

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

Eye contact Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

Ingestion If ingestion of a large amount does occur, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed Not available.

4.3. Indication of any immediate medical attention and special treatment needed Not available.

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing media Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture Not available.

5.3. Advice for firefighters

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| Special protective equipment for firefighters | Not available. |
| Special fire fighting procedures | Not available. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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| For non-emergency personnel | Wear appropriate personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. |
| For emergency responders | Not available. |

6.2. Environmental precautions Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up Not available.

6.4. Reference to other sections Not available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Keep away from heat and sources of ignition. Avoid contact with skin and eyes Use this product with adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities Keep away from excessive heat, sparks, and open flames.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Not available.

Derived no-effect level (DNEL)

| Material | Type | Route | Value | Form |
|-------------------|-----------|------------|-----------|--------------------|
| Isopropyl alcohol | Consumers | Dermal | 319 mg/kg | Systemic long term |
| | | Inhalation | 89 mg/m3 | Systemic long term |
| | | Oral | 26 mg/kg | Systemic long term |
| | Workers | Dermal | 888 mg/kg | Systemic long term |
| | | Inhalation | 500 mg/m3 | Systemic long term |

Predicted no effect concentrations (PNECs)

| Material | Type | Route | Value | Form |
|-------------------|----------------|--------------|------------|------------------------|
| Isopropyl alcohol | Not applicable | Freshwater | 140.9 mg/l | |
| | | Intermittant | 140.9 mg/l | Releases |
| | | Marine water | 140.9 mg/l | |
| | | Sediment | 552 mg/kg | Freshwater |
| | | Sediment | 552 mg/kg | Marine water |
| | | Soil | 28 mg/kg | |
| | | STP | 2251 mg/l | Sewage Treatment Plant |

8.2. Exposure controls

Appropriate engineering controls Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment to minimize exposure to skin and eye.

Eye/face protection Not available.

Skin protection

- **Hand protection** Not available.

- **Other** Not available.

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| Respiratory protection | Not available. |
| Thermal hazards | Not available. |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. |
| Environmental exposure controls | Not available. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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|---|----------------------------------|
| Appearance | Clear liquid |
| Physical state | Liquid. |
| Color | Colorless. |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | Not available. |
| Evaporation rate | 2.3 (butyl acetate = 1) |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | >= 2.5 % |
| Flammability limit - upper (%) | <= 12 |
| Vapor pressure | 6.05 kPa at 25°C |
| Relative density | 0.785 g/cm ³ at 20 °C |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Solubility (other) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Explosive properties | Not available. |
| Oxidizing properties | No information available. |
| 9.2. Other information | |
| Molecular formula | C ₃ H ₈ O |
| VOC (Weight %) | 100 % |

SECTION 10: Stability and reactivity

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| 10.1. Reactivity | Not available. |
| 10.2. Chemical stability | Stable under recommended storage conditions. |
| 10.3. Possibility of hazardous reactions | Will not occur. |
| 10.4. Conditions to avoid | Heat, flames and sparks. |
| 10.5. Incompatible materials | Incompatible with strong acids and bases. |
| 10.6. Hazardous decomposition products | Carbon monoxide and carbon dioxide. |

SECTION 11: Toxicological information

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| General information | Not available. |
| 11.1. Information on toxicological effects | |
| Acute toxicity | No data available. |
| Skin corrosion/irritation | (OECD 402) LD ₅₀ /dermal/rabbit > 12000 mg/kg., |

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| Serious eye damage/eye irritation | Not available. |
| Respiratory sensitization | Not available. |
| Skin sensitization | Not available. |
| Germ cell mutagenicity | Not available. |
| Carcinogenicity | Not available. |
| Reproductive toxicity | Not available. |
| Specific target organ toxicity - single exposure | Not available. |
| Specific target organ toxicity - repeated exposure | Not available. |
| Aspiration hazard | Not available. |
| Mixture versus substance information | Not available. |
| Other information | Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures. |

SECTION 12: Ecological information

12.1. Toxicity

| Product | Species | Test Results |
|-------------------|---------|--|
| Isopropyl alcohol | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC50 | Algae > 1000 mg/l, 72 hours |
| Crustacea | EC50 | Daphnia 13299 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) 9460 mg/l, 96 hours |

12.2. Persistence and degradability Not available.

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow) Not available.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Not available.

Contaminated packaging Not available.

EU waste code Not available.

Disposal methods/information Dispose of in compliance with federal, state, and local regulations.

SECTION 14: Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

ADR

| | |
|-----------------------------|-------------|
| Proper shipping name | ISOPROPANOL |
| Hazard class | 3 |
| UN number | 1219 |
| Packing group | II |
| Labels required | 3 |

Item
Transport Category

F1
2



ADR

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorizations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not regulated.

Directive 94/33/EC on the protection of young people at work

Not regulated.

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| Other regulations | All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China. |
| National regulations | Not available. |
| 15.2. Chemical safety assessment | See attached SUMI or GEIS document, if applicable. |
| National Regulations | |
| Major accident legislation | 5000 TONNES |
| Pregnancy group | C |

SECTION 16: Other information

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|--|---|
| References | Not available. |
| Information on evaluation method leading to the classification of mixture | Not available. |
| Issue date | 06-Jun-2014 |
| Revision information | 8. Exposure Controls / Personal Protection: OELs |
| Training information | Not available. |
| Disclaimer | This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries. |
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Explanation of abbreviations








| | |
|---------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAS | Chemical Abstracts Service |
| CERCLA | Comprehensive Environmental Response Compensation and Liability Act |
| CFR | Code of Federal Regulations |
| COC | Cleveland Open Cup |
| DOT | Department of Transportation |
| EPCRA | Emergency Planning and Community Right-to-Know Act (aka SARA) |
| IARC | International Agency for Research on Cancer |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| RCRA | Resource Conservation and Recovery Act |
| REC | Recommended |
| REL | Recommended Exposure Limit |
| SARA | Superfund Amendments and Reauthorization Act of 1986 |
| STEL | Short-Term Exposure Limit |
| TCLP | Toxicity Characteristics Leaching Procedure |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| VOC | Volatile Organic Compounds |

List of abbreviations Not available.

Generic Exposure Information Sheet (GEIS)

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Maintenance fluid digital printing: SSMF01 *English*

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|---|--|
| Disclaimer | |
| <p><i>This GEIS is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this GEIS to a specific product SDS, the importer/formulator declares that the product can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, GEIS Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.</i></p> <p><i>The REACH registration number(s), where applicable, completes an extended product SDS.</i></p> | |
| Operational conditions | |
| Maximum duration | Up to 8 hours per day |
| Frequency of exposure | < 240 days per year |
| Process conditions | <p>Covers use at ambient temperatures.</p> <p>Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace.</p> <p>Keep emissions below the occupational exposure limits of the ingredients specified in section 8 of the SDS.</p> <p>Avoid direct contact.</p> <p>Regular cleaning of equipment and work area.</p> <p>Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions follow</p> |
| Risk management measures | |
| Conditions and measures related to Personal Protection Equipment, hygiene and health evaluation | <p>Wear safety glasses with side shields (or goggles), if splashing is possible.</p> <p>Wear appropriate chemical resistant gloves: see section 8 of the SDS.</p> <p>Wear appropriate chemical resistant clothing.</p> <p>Eye wash fountain and emergency showers are recommended.</p> <p>Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.</p> <p>Avoid breathing mist/vapours.</p> <p>Avoid contact with skin, eyes and clothing.</p> <p>Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.</p> <div style="display: flex; justify-content: center; gap: 10px; margin-top: 10px;">      </div> |
| Good practice advice | |
| <p>Use personal protective equipment as required.</p> <p>Wash hands before breaks and after work.</p> <p>Keep good industrial hygiene and safety practice.</p> <p>Use only with adequate ventilation.</p> <p>Do no eat, drink or smoke when using this product.</p> <p>Wash contaminated clothing before reuse.</p> <p>Store at room temperature.</p> |   |
| Environmental measures | |
| <p>Do not allow this material to drain into sewers/water supplies.</p> <p>Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.</p> <p>Ensure collection and disposal with appropriately licenced waste contractor.</p> | |
| Use descriptors | |
| IS-Use at industrial sites | |
| PW-Widespread use by professional workers | |
| SU7-Printing and reproduction media | |
| PC35-Washing and cleaning products | |
| PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities | |
| PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities | |
| PROC11-Non-industrial spraying | |
| ERC4-Use of non-reactive processing aid at industrial site (no inclusion into or onto article) | |
| Additional information on product composition | |
| <p>In section 2 of the SDS as well as on the label, the classification of the product is provided.</p> <p>Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.</p> | |