



SAFETY DATA SHEET

Section 1: Identification of the chemical product and of the supplier

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Identification of the chemical product CN671-70001

Recommended use of the chemical and restrictions on use

Recommended use Inkjet printing
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

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Section 2: Hazards identification

Classification according to GHS

Physical hazards Not classified.
Health hazards Reproductive toxicity (fertility, the unborn child) Category 1B
Environmental hazards Not classified.

Label elements



Signal word Danger
Hazard statement May damage fertility or the unborn child.

Precautionary statement

Prevention Wear protective gloves/protective clothing/eye protection. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

Response IF exposed or concerned: Get medical advice/attention.

Storage Store locked up.

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

Safety signs according to NCh1411/4



Other hazards Complete toxicity data are not available for this specific formulation. Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions.

Supplemental information 2-pyrrolidone: Specific Concentration Limits, Reproductive toxicity Category 1B, fertility or the unborn child 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11.

Section 3: Composition/information on ingredients

Mixture

Hazardous components

Systematic chemical name	Common or generic name	Concentration range	CAS number
2-pyrrolidone		<20	616-45-5

Non-hazardous components

Systematic chemical name	Common or generic name	Concentration range	CAS number
Water		60-70	7732-18-5
Substituted diol		<10	Proprietary
Magenta Colorant		<5	Proprietary

Section 4: First-aid measures

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

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.

Expected acute effects Not available.

Expected delayed effects Not available.

Most important symptoms/effects Not available.

Special notes for treating physician Not available.

Section 5: Fire-fighting measures

Extinguishing media Dry chemical, CO2, water spray or regular foam.

Inappropriate extinguishing media None known.

Products formed during combustion and thermal degradation Refer to section 10.

Specific associated hazards Not applicable.

Specific extinguishing methods None established.

Precautions for emergency personnel and/or firefighters Not available.

Section 6: Accidental release measures

Personal precautions Wear appropriate personal protective equipment.

Protective equipment Not available.

Emergency procedures Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

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

Methods and material for containment, confinement, and/or abatement Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Methods and materials for clean-up

Recovery Soak up with inert absorbent material.

Neutralization	Not available.
Final disposal	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
Additional measures for preventing disasters	Not available.

Section 7: Handling and storage

Handling

Precautions for safe handling	Avoid contact with skin, eyes and clothing.
Operational and technical measures	Not available.
Other precautions	Not available.
Prevention of contact	Handle in accordance with good industrial hygiene and safety practice.

Storage

Conditions for safe storage	Not available.
Technical measures	Keep out of the reach of children. Keep away from excessive heat or cold.
Incompatible substances and mixtures	Not available.
Materials for containers and/or packaging	Not available.

Section 8: Exposure controls/personal protection

Maximum permissible concentration	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Exposure limits have not been established for this product.
Individual protection measures, such as personal protective equipment	
Respiratory protection	Not available.
Hand protection	Not available.
Eye protection	Not available.
Skin and body protection	Use personal protective equipment to minimize exposure to skin and eye.
Engineering measures	Use in a well ventilated area.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Not available.
Color	Magenta
Odor	Not available.
pH	9
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup
Explosivity limits	Not available.
Vapor pressure	Not available.
Density	1.00 g/cm ³
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Odor threshold	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Viscosity	Not available.

Section 10: Stability and reactivity

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Not available.
Incompatible materials	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Section 11: Toxicological information

Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components	Species	Test Results
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2-pyrrolidone (CAS 616-45-5)

Acute

Oral

LD50

Rat

> 5000 mg/kg

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.
Not classified as an irritant according to, OECD 405.

Respiratory or skin sensitization

Respiratory sensitization Based on available data, the classification criteria are not met.

Skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.
Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity May damage fertility or the unborn child.

2-pyrrolidone: This component showed developmental effects only at high doses that were toxic to pregnant test animals (OECD Testing Guideline 414: Prenatal Developmental Toxicity Study). Uptake by people of small doses is not expected to cause developmental toxicity. This component has not caused adverse effects on sexual function or damage to fertility in an animal study (OECD Testing Guideline 443: Extended One-Generation Reproductive Toxicity Study).

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Related symptoms Not available.

Section 12: Ecological information

Ecotoxicity No information available.

Product	Species	Test Results
CN671-70001		
Aquatic		
Acute		
Fish	LC50	Fathead minnow (Pimephales promelas) > 750 mg/l, 96 hours

Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia pulex)
		13.21 mg/l, 48 hours
Persistence and degradability	Not available.	
Bioaccumulative potential	Not available.	
Mobility in soil	Not available.	

Section 13: Disposal considerations

Remains/residues	Not available.
Contaminated container, packaging and contaminated materials	Not available.
Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Section 14: Transport information

DOT

UN number	Not available.
UN proper shipping name	Not Regulated
Transport hazard class(es)	
Class	Not available.
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	
Marine pollutant	No
Special precautions for user	Not available.

IATA

UN number	Not available.
UN proper shipping name	Not Regulated
Transport hazard class(es)	
Class	Not available.
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	No
Special precautions for user	Not available.

IMDG

UN number	Not available.
UN proper shipping name	Not Regulated
Transport hazard class(es)	
Class	Not available.
Subsidiary risk	-
Packing group	Not available.
Transport hazard class(es)	
Marine pollutant	No
EmS	Not available.
Special precautions for user	Not available.

ADR

UN number	Not available.
UN proper shipping name	Not Regulated
Transport hazard class(es)	
Class	Not available.
Subsidiary risk	-
Hazard No. (ADR)	Not available.
Tunnel restriction code	Not available.
Packing group	Not available.
Environmental hazards	No
Special precautions for user	Not available.

Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

Section 15: Regulatory information

National regulations

Controlled chemical substances susceptible to manufacturing of narcotics and psychotropic drugs, Lists I, II, III (Decree 1358, published April 17, 2007)

Not listed.

Prohibited Substances (Reg. 594/1999, art. 65, as of Nov. 8, 2012)

Not listed.

International 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.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

Section 16: Other information

Revision information

Section 2: Hazards identification: Supplemental information
Section 11: Toxicological information: Reproductivity

References

Not available.

Disclaimer

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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