

PVP Iodine 30/60

Free-flowing powder

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- a brown, free-flowing powder.
- soluble in water, ethanol, propanol and insoluble in acetone, chloroform, methylene chloride, heptane and hexane.
- Prophylaxis of skin and mucous membrane antiseptics and surgical and hygienic hand disinfection
- Treatment of burns, decubitus, varicose ulcers, dermatomycosis, pyoderma, acne and vaginitis

PRD Number	30034963
CAS Number	25655-41-8
Generic Name	Povidone iodine; PVP-iodine; 2-pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine
Grade	GMP Pharma Grade
Applications, Description and Composition	PVP-iodine 30/60 is a brown, free-flowing powder. It is soluble in water, ethanol, propanol and insoluble in acetone, chloroform, methylene chloride, heptane and hexane.

Product name	PVP-Iodine 30/06
Chemical name	Poly[(2-oxopyrrolidin-1yl)ethylene]iodine
Temperature	No specific temperature
Conditions	Store tightly closed.
Retest Period	36 months
Packaging size (Article number)	70KG Plastic drums (ArticleNo: 50211392); 500kg IBC flexible (ArticleNo: 55087602); 500kg IBC flexible (ArticleNo: 51955355); 70KG PE-Drum, removable head (ArticleNo: 55087443); not specified (ArticleNo: 50537724); 0,5KG Plastic bottle (ArticleNo: 50539452) - Sample; 1KG Plastic bottle (ArticleNo: 55326261); 0,5KG Plastic bottle (ArticleNo: 50000790) - Sample [Show less]
Country of origin	USA
Manufacturer incl. address	BASF Corporation, Geismar, LA

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Skin and mucous membrane antiseptics as well as surgical and hand disinfection

PVP-Iodine is an antiseptic that offers a broad spectrum of coverage, demonstrating antiviral, antibacterial, and antifungal activity. Found on the World Health Organization's Model List of Essential Medicines, PVP-Iodine's potent efficacy is balanced with its established safety profile in a wide range of ages spanning from pediatric to geriatric patients. In-vitro studies of PVP-Iodine-based topical formulations including skin cleansers, topical scrubs, and gargle/mouthwashes have indicated that PVP-Iodine products reduce viral load of certain coronaviruses such as MERS-CoV, SARS-CoV-1, and SARS-CoV-2.

PVP-Iodine is known for its wide range of uses:

- Skin and mucous membrane antiseptics
- Surgical and hygienic hand disinfection
- Treatment of burns, decubitus, varicose ulcers, dermatomycosis, pyoderma, acne and vaginitis
- PVP-Iodine is used in topical formulations such as solutions, gels, creams, ointments and others

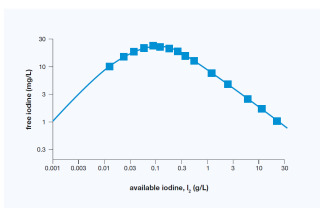
Chemistry	Polyvinylpyrrolidone iodine
CAS number	25655-41-8
PRD number	30034963
Packaging and article number	70 kg PE drum (55087443); 500 kg IBC (51955355)
Sample and article number	0.5 kg plastic bottle (50539452)
Manufacturing site	Geismar, LA (USA)
Regulatory status	USP, Ph. Eur., JP, IP
Physical form	Brown free-flowing powder Micronization causes color to change from pale brown to orange

PVP-Iodine has been investigated for virucidal activity

- PVP-I activity specifically against strains of Coronavirus (MERS, SARS and SARS-CoV-2) has been tested in vitro in recent studies
- PVP-I based 7% gargle mouth wash formula showed in vitro rapid inactivation² of MERS CoV and SARS CoV in 15s exposure
- PVP-I based 4% skin cleanser formula showed >99.99% inactivation of MERS CoV in 15s exposure
- The mode of action is related to the active I form, e.g. oxidizing vital pathogen structures and disrupting cellular membranes
- Several commercial PVP-I-based products were tested under European guidelines⁵ (EN 14476, EN 1499) with proven virucidal efficacy
- Certain publications consider that the use of MVA and MVN test models provide data that can be used for decision-making during public health crisis
- PVP-I-based skin cleanser and mouth wash products may provide viral decontamination on skin and oral cavity, potentially limiting transmission of coronavirus infection, such as MERS, SARS and SARS-CoV-2 during outbreaks



Infographic PVP-iodine



Antimicrobial Efficacy of PVP-Iodine

The antimicrobial efficacy of PVP-Iodine is dependent on two major factors:

- Available iodine = iodine that can be titrated with sodium thiosulphate
- Free iodine = non-complexed, free iodine that can be determined in a dialysis test or an electrochemical model

Free iodine content is inversely proportional to the concentration of PVP-Iodine or available

iodine. Tests on micro-organisms have shown that the rate of microbicidal action is proportional to the free iodine content.

Relationship between the free iodine concentration and the concentration of available iodine in aqueous solution.

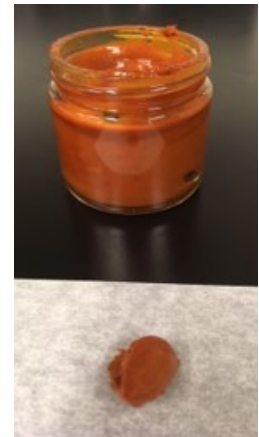
Foam:

Suitable for large surface applications Easy to apply Fast spreading Non-leaking Clean application – prevents body, cloths and furniture from contamination



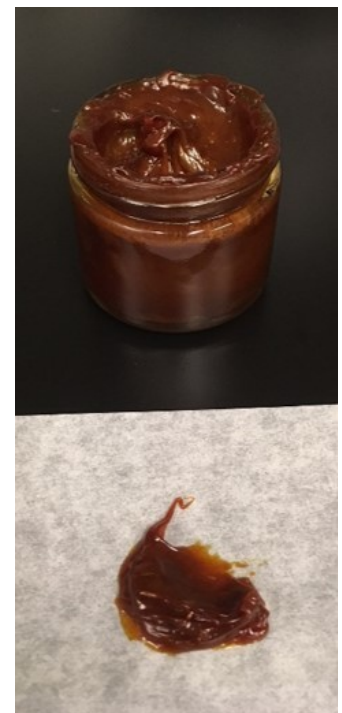
Cream:

Improved sensory feeling compared to PVP-iodine ointments Better spreading compared to PVP-iodine ointments



Ointments:

Hydrophilic and free of mineral oil Higher viscosity for improved richness and care feeling



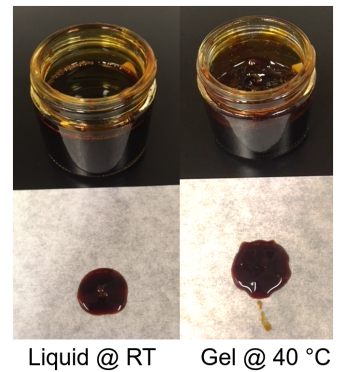
Stick:

*Provides occlusive barrier Simple, water-free formulation
Suitable mainly for small skin surface areas Very precise and
local application ("spot on") Dry and clean application*



Sprayable thermo-reversible poloxamer gels:

*Sprayable gel using thermo-reversible gellification upon
contact with skin Local and precise application No leaking or
easy wash-off*



Hydrophilic poloxamer gels:

*Thermo-reversible gelling agent builds viscosity upon contact
with skin Cool, refreshing feeling Easily spread Targeted
application to small or large surface areas*



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