

<b>Dagangan : DISINFECTANTS</b> Nama Barangan : (1) Sterile IPA 70% in WFI Trigger Spray Jenama : (2) Sterile IPA 70% in WFI Bottle Model : (3) Non-Sterile IPA 70% in WFI Trigger Spray (4) Non-Sterile IPA 70% in WFI Bottle	<b>Kod Tarif (Perintah Duti Kastam 2012) :</b> 3808.94 000 <b>Tarikh Kelulusan : 03 Mac 2015</b>
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Barangan berupa cecair yang berlabel steril alcohol 70% V/V dan terdiri daripada dua jenis iaitu *sterile* dan *non sterile*.

Barangan dipek dalam dua bentuk iaitu trigger spray dan botol yang bersaiz 900 ml, 450 ml dan 1 Liter bagi trigger spray serta saiz 5 Liter bagi botol.

Komposisi barangan adalah 70% IPA (Isopropanol) dan 30% WFI (*Water For Injection*) di mana WFI ini berfungsi untuk membantu membolehkan tahap endotoksin yang rendah.

Kegunaan/fungsi barangan adalah untuk mencuci permukaan meja (*work surface*), lantai, dinding dan di dalam bilik *cleanroom* untuk farmaseutical dan hospital.

Berdasarkan *product guide*, barangan berfungsi sebagai *biocidal disinfectants*. Berdasarkan label barangan juga dinyatakan: *sterile alcohol serves as a stand-alone disinfectant*.

Maklumat barangan berdasarkan *safety data sheet* :

<b>Product identifier</b>		
<i>Product name</i>	ISOPROPANOL 70% (WFI GRADE)	
<i>Synonyms</i>	ISOPROPYL ALCOHOL 70% ISOPROPANOL 70% V/V (0.2 MICRON FILTERED IN WFI GRADE) IPA 70% SOLUTION	
<b>Composition/information on ingredients</b>		
<b>PROPAN-2-OL</b>	CAS	Percent
	67-63-0	50-70%
<b>Physical and chemical properties</b>		
<b>State</b>	Liquid	
<b>Colour</b>	Colourless	
<b>Odour</b>	Alcoholic	
<b>Solubility in water</b>	Soluble	
<b>Viscosity</b>	Non-viscous	
<b>Flash point°C</b>	20.5	
<b>Relative density</b>	0.870 – 0.890	

Spesifikasi produk berdasarkan Lampiran 1D :

<i>Product Name/Code</i>	<i>IPA 70% / Isopropyl Alcohol 70% / Isopropanol 70%</i>
<i>Product Type</i>	<i>Liquid / Aerosol / Impregnant</i>
<i>Proportion</i>	<i>70 : 30 (v/v)</i>
<i>Alcohol Grade</i>	<i>99.7% min, typically 99.9%. Complies with BS1595, ASTM D770, British Pharmacopoeia, US Pharmacopoeia &amp; European Pharmacopoeia</i>
<i>Water Grade</i>	<i>WFI Quality Water</i>
<i>Filtration</i>	<i>0.2 micron Filtered</i>
<i>Appearance</i>	<i>Clear and Colourless Liquid</i>
<i>Odour</i>	<i>Isopropanol</i>
<i>SG @20° C</i>	<i>0.870 – 0.890</i>
<i>pH</i>	<i>6.0 – 9.0</i>
<i>Refractive Index/Percentage Activity @20°C</i>	<i>1.370 – 1.380</i>
<i>Irradiation Dosage</i>	<i>25 – 45 kGy (Sterile Products)</i>

Analisis pakar mengesahkan sampel berupa satu botol plastik putih berlabel STERIL ALCOHOL 70% V/V yang mengandungi 450 mililiter cecair jernih tidak berwarna. Setelah dianalisis, didapati cecair tersebut terdiri daripada 74.5% v/v isopropil alkohol. Ketumpatan cecair pada 20°C adalah 0.8719 g/cm<sup>3</sup>.

Barangan ini sesuai diperjeniskan di bawah kod tarif **3808.94 000** sebagai **disinfectants**.

Barangan telah disahkan terdiri daripada 74.5 % v/v *isopropyl alcohol*.

Barangan dipek di dalam bentuk *trigger spray* dan botol. Berdasarkan label, barangan mengandungi 70 % *isopropyl alcohol* di mana bahan ini berfungsi sebagai *disinfectants*.

*Disinfectant* berdasarkan Wikipedia :-

*Disinfectants are antimicrobial agents that are applied to non-living objects to destroy microorganisms that are living on the objects. Disinfection does not necessarily kill all microorganisms, especially resistant bacterial spores; it is less effective than sterilization, which is an extreme physical and/or chemical process that kills all types of life.*

*Disinfectants are frequently used in hospitals, dental surgeries, kitchens, and bathrooms to kill infectious organisms.*

*Alcohol, usually ethanol or isopropanol, are sometimes used as a disinfectant, but more often as an antiseptic (the distinction being that alcohol tends to be used on living tissue rather than nonliving surfaces). Alcohols are most effective when combined with purified water to facilitate diffusion through the cell membrane; 100% alcohol typically denatures only external membrane proteins. A mixture of 70% ethanol or isopropanol diluted in water is effective against a wide spectrum of bacteria, though higher concentrations are often needed to disinfect wet surfaces.*

Keterangan ini sesuai sebagaimana keterangan EN HS 2012 muka surat VI-3808-1, VI-3808-3 dan VI-3808-4 iaitu :-

**These products are classified here in the following cases only :**

- (1) *When they are put up in packings (such as metal containers or paperboard cartons) for retail sale as disinfectants, insecticides, etc., or in such forms (e.g., in balls, strings of balls, tablets or plates) that there can be no doubt that they will normally be sold by retail.*

*Products put up in these ways may or not be mixtures. The unmixed products are mainly chemically defined products which would otherwise fall in Chapter 29, e.g., naphthalene, or 1, 4-dichlorobenzene.*

*The heading also includes the following products, **provided** they are put up for retail sale as disinfectants, fungicides, etc :*

- (a) **Organic surface-active products and preparations**, with active cation (e.g., quaternary ammonium salts), having antiseptic, disinfectant, bactericidal or germicidal properties.
- (b) **Poly (vinyl pyrrolidone)-iodine**, being a reaction product of iodine and poly(vinyl pyrrolidone).

*The products of heading 38.08 can be divided into the following groups :*

(I) – (III)

(IV) **Disinfectants**

*Disinfectants are agents which destroy or irreversibly inactive undesirable bacteria, viruses or other micro-organisms, generally on inanimate objects.*

*Disinfectants are used, for example, in hospitals for cleaning walls, etc., or sterilising instruments. They are also used in agriculture for disinfecting seeds and in the manufacture of animal feeds to control undesirable micro-organisms.*

*The group includes sanitisers, bacteriostats and sterilisers.*

Barangan tidak sesuai diperjeniskan di bawah *Heading 2905.12* sebagai *propyl alcohol and isopropyl alcohol* kerana barangan adalah dalam bentuk *trigger pack* dan botol yang digunakan sebagai *disinfectants*. Ini sesuai sebagaimana keterangan EN HS 2012 muka surat VI-29-5 iaitu:

(D) **Exclusion from Chapter 29 of certain separate chemically defined organic compounds**

(Chapter Note 2)

- (1) *Certain other separate chemically defined organic products, which would otherwise have been classified in Chapter 29, may be **excluded** when put up in certain forms, or if they have been subjected to certain treatments which leave their chemical composition unchanged. Examples are :*
- (a)- (g)
- (h) **Disinfectants, insecticides, etc., put up as described in heading 38.08.**

Berdasarkan *WCO Database*, barangan yang hampir sama iaitu *sodium chlorophenate put up for retail sale as a disinfectant* pernah diperjeniskan di bawah kod tarif yang sama.

Barangan mendapat liputan di dalam HS 2012 EN muka surat VI-3808-1 seperti berikut:

**38.08 – Insecticides, rodenticides, fungicides, herbicides, anti sprouting products and plant-growth regulators, disinfectants and similar products, put up in forms or packings for retail sale or as preparations or articles (for example, sulphur-treated bands, wicks and candles, and fly-papers)**

3808.50 - Goods specified in Subheading Note 1 to this Chapter

- Other :

3808.91 – Insecticides

3808.92 -- Fungicides

3808.93 --Herbicides, anti-sprouting products and plant-growth regulators

**3808.94 -- Disinfectants**

3808.99 -- Other

*This heading covers a range of products (**other than** those having the character of medicaments, including veterinary medicaments – **heading 30.03 or 30.04**) intended to destroy pathogenic germs, insects (mosquitoes, moths, Colorado beetles, cockraches, etc.), mosses and moulds, weeds, rodents, wild birds, etc. Products intended to repel pests or used for disinfecting seeds are also classified here.*

*These insecticides, disinfectants, herbicides, fungicides, etc., are applied by spraying, dusting, sprinkling, coating, impregnating, etc., or may necessitate combustion. They achieve their results by nerve-poisoning, by stomach-poisoning, by asphyxiation or by odour, etc.*

