www.seojinchem.co.kr

CREATE SOMETHING MORE VALUABLE

with the **best technology**
create safety products

- Rigorous quality control system
- Proven safety product
- Advanced refining process

Seojin Chemical Co., Ltd.

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SEOJIN Chemical CO., Ltd, CEO

Dong-hwa Kim

SEOJIN Chemical which achieved success in localization here in Korea has grown as an eco-green company based on the human respect spirit for past 30 years.

We promise that we do our best to deliver the best value and product by investing in core technique development and securing the world best technique.

SEOJIN Chemical will keep trying to invest for high-tech facilities, laboratory, human resource development as well as be an eco-company with eco-friendly technique development.

History of Seojin

Seojin Chemical's technology hope
that can bring a **rich life for the person.**

2018
Got permission for Active Pharmaceutical Ingredients manufacturing

2017
Drum filling automation system construction
Rebuilding refining process facility
Established warehouse management system

2015
Established company-wide quality control system

MAY.2012
Built VDU no.2 (4 cutting system)

JUL.2009
Set total automation system / ISO 18001 Certificate

JUL.2003
Built VDU no.1 (Adopted Narrow cutting system)
ISO 9001 Certificate / ISO 14001 Cerificate

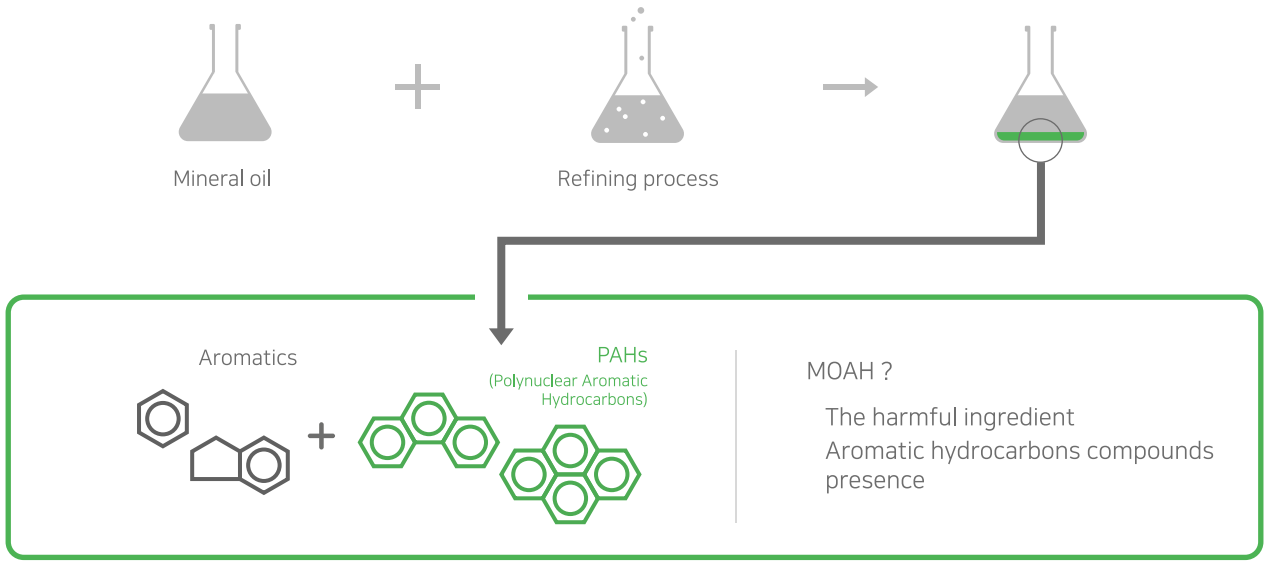
JUL.1996
Designated affiliated institute of Technology Research of Korea industrial & technical promotion association
/ Food Additives & Medical Supplies License Obtained (made Core Strong)

FEB.1983
Corporate name revised to SEOJIN CHEMICAL CO., LTD
/ Obtained Food Additives License by Korean Health & Social Ministry No. 312

OCT.1977
Set up "Kyong Bang Chemical" as the 1st White Oil Factory in Korea

PARACOS - Colorless, tasteless, odorless, high purity refined liquid paraffin

High-purity mineral oil with harmful ingredients removed



Usage

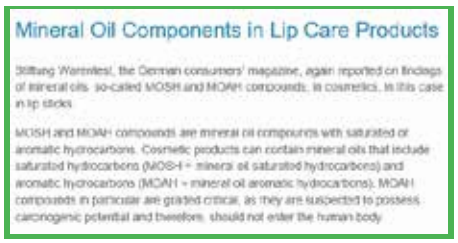
Skin	Makeup	Hair
Lotion, Cream, Face oil, Baby oil, Sun cream	Makeup products, Cleansing oil, Removal	Hair oil, Hair essence

Passed cosmetic safety standards

Cosmetic safety standards		
	1	No heavy metals detected. PASSED
	2	Passed the cosmetic microbiological limit test. PASSED
	3	No detected harmful substances such as SVHC and MOAH. PASSED
Issue about MOAH		

BfR

Mineral oils in cosmetics: Considering all available scientific evidence, no health risks are to be expected from absorption via the skin


Mineral Oil Components in Lip Care Products

Stiftung Warentest, the German consumers' magazine, again reported on findings of mineral oils, so-called MOSH and MOAH compounds, in cosmetics, in this case in lip sticks.

MOSH and MOAH compounds are mineral oil compounds with saturated or aromatic hydrocarbons. Cosmetic products can contain mineral oils that include saturated hydrocarbons (MOSH = mineral oil saturated hydrocarbons) and aromatic hydrocarbons (MOAH = mineral oil aromatic hydrocarbons). MOAH compounds in particular are graded critical, as they are suspected to possess carcinogenic potential and therefore, should not enter the human body.

PARACOS KF - 70

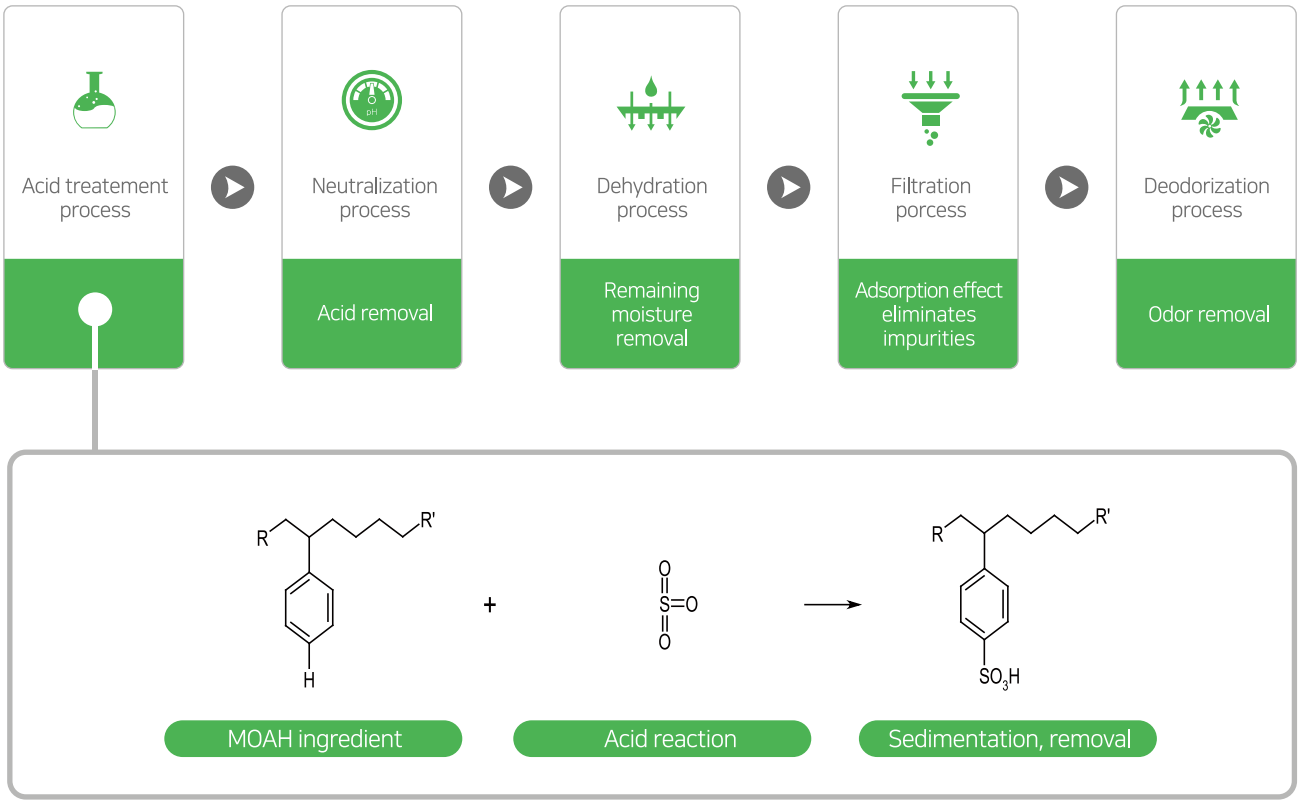
Items	Test Method	Specification	Typical
Appearance	Visual	Clear	Clear
Saybolt Color	ASTM D 156	Min. +30	+30
Specific Gravity, 15/4℃	ASTM D 4052	0.820-0.860	0.8357
Flash Point, ℃	ASTM D 92	Min. 160	200
Pour Point, ℃	ASTM D 97	Max -9	-33
Kinematic Viscosity, 40.0℃, cSt	ASTM D 7042	11.0-13.4	12.29
Refractive Index, 20℃	ASTM D 1218	Max. 1.475	1.4607
Carbonizable Substances Test	ASTM D 565/USP	Pass	Pass
Polynuclear Aromatic HydroCarbons	ASTM D 2269/USP	Max. 0.1	Pass
Free Acidity, Alkali	ASTM D 974	Neutral	Pass
Heavy Metal	AAS	Max. 10ppm	Pass
Mercury	ICP	Max. 2ppm	Pass
Arsenic	ICP	Max. 2ppm	Pass
Sulfur compounds	SJTM-34	Pass	Pass

PARACOS KF - 150

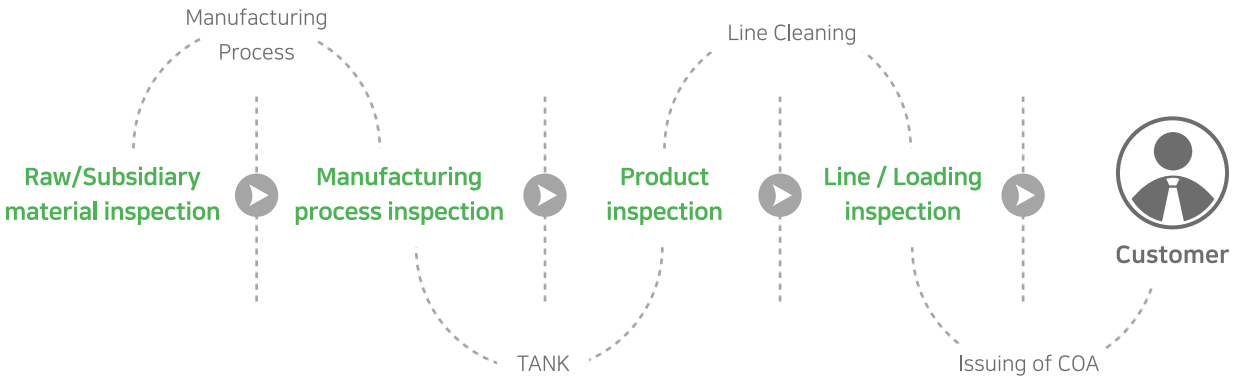
Items	Test Method	Specification	Typical
Appearance	Visual	Clear	Clear
Saybolt Color	ASTM D 156	Min. +30	+30
Specific Gravity, 15/4℃	ASTM D 4052	0.820-0.860	0.8461
Flash Point, ℃	ASTM D 92	Min.190	242
Pour Point, ℃	ASTM D 97	Max.-9	-21
Kinematic Viscosity, 40.0℃, cSt	ASTM D 7042	28.0-32.0	29.93
Carbonizable Substances Test	ASTM D 565/USP	Pass	Pass
Polynuclear Aromatic Hydrocarbons	ASTM D 2269/USP	Max. 0.1	Pass
Free Acidity, Alkali	The Offical Code of The Food Additive	Pass	Pass
Lead		Max. 1ppm	Pass
Arsenic		Max. 4ppm	Pass

Refining process

- SEOJIN produces high purity liquid paraffin through advanced refining process using the newest white minireal oil production facilities



Quality Control



Drum filling automation facility

- Clean Room (Class 1000)
- Fully automated process

1	2	3	4	5
In / Outside Air shower	Primary High-Speed Filling	2nd Precise Filling	Attach Product Label	Pallet Wrapping & Packing

Drum filling automation facility

Automated all processes from production to packaging, prevent contamination inside the product by creating an aseptic environment.

SJ-HUB (Indoor warehouse)

Packed drum is stored in indoor warehouse and it managed safely with proper circumstance such as Cleanliness, Sanitary Control, insect-proof, temperature and humidity control.

Warehouse management system

Product identification is easy by barcode management using product-specific LOT, and it enables quick tracking and identification when problem occurs.

KF - Series

- Highly refined white mineral oil that are removed aromatic hydrocarbon
- Meet the requirement of the USP / NF / BP / JP / Ph Eur. for Mineral oil
- FDA regulation 21 CFR 172.878 & 21 CFR 178.3620(a)

ITEM	Specific Gravity, 15/4℃	Flash Point, C.O.C ℃	Pour Point, ℃	Kinematic Viscosity, 40.0℃, cSt
Test Method	ASTM D 4052	ASTM D 92	ASTM D 97	ASTM D 7042
KF-40	0.8316	140	-39	4.80
KF-50	0.8324	166	-39	7.70
KF-70	0.8357	200	-33	12.05
KF-85	0.8383	208	-18	15.52
KF-100	0.8407	206	-27	20.00
KF-150	0.8449	226	-21	30.00
KF-250	0.8516	252	-18	50.65
KF-350	0.8578	274	-12	70.58
KF-550	0.8659	288	-12	101.5

KF - T Series

- Liquid paraffin with increased naphtene content than KF-Series

ITEM	Density, 15/4℃	Flash Point, C.O.C ℃	Pour Point, ℃	Kinematic Viscosity, 40.0℃, cSt	Hydro Carbon type, Ca/Cn/Cp, %
Test Method	ASTM D 4052	ASTM D 92	ASTM D 97	ASTM D 7042	ASTM D 2140
KF-85T	0.8472	194	-21	15.76	0/33/67
KF-350T	0.8632	262	-15	72.3	0/30/70
KF-550T	0.8664	288	-12	102.3	0/29.5/70.5

KL - Series

- High viscosity, high molecular weight white oil
- Excellent low pour point, low volatility and thermal stability
- Can be used in various industrial applications

ITEM	Specific Gravity 15/4℃	Flash Point, C.O.C ℃	Pour Point, ℃	Kinematic Viscosity, 40.0℃ cSt
Test Method	ASTM D 4052	ASTM D 92	ASTM D 97	ASTM D 7042
KL-600	0.8660	280	-15	102.5
KL-700	0.8697	286	-24	138.6
KL-900	0.8730	290	-27	174.0

! The values quoted above are typical of normal production, They do not constitute a specification

Permission for Active Pharmaceutical Ingreients manufacturing

FDA Certification

HACCP

ISO 9001

ISO 14001

ISO 18001

NSF 3H Certification

HALAL

KOSHER

[Green dreams]

with nature realize by technology for the person.

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