

# UV FILTERS FOR PERSONAL CARE

**PRODUCTS** 

SUN-KISSED SAFELY: TRUST OUR UV ABSORBERS FOR SKIN-LOVING PERSONAL CARE





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BIRD EYE VIEW SAREX OVERSEAS MANUFACTURING COMPLEX, TARAPUR, INDIA

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21+

200+

20+

Year of Experience

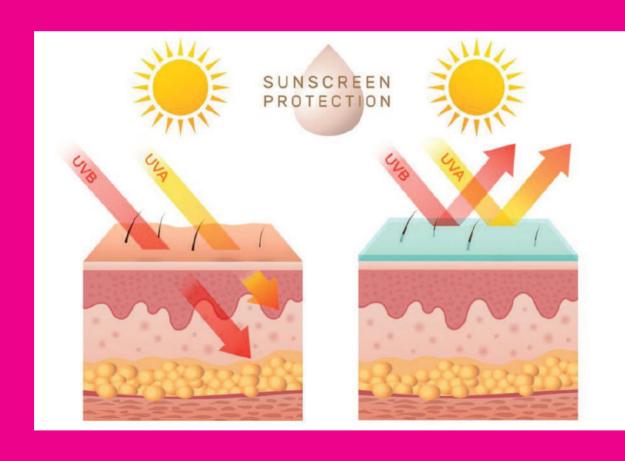
No. of Customers Served

Countries Served

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## **About Sarex**



arex Overseas is a Mumbai Based Company, manufacturing Fine Chemicals and Specialty Chemicals. Sarex Overseas is a division of Sarex Organics Pvt Ltd, Mumbai, India.

Sarex overseas is a leading manufacturer of Fine Chemicals and API Intermediates in India.

Sarex Overseas has corporate office in Mumbai. Sarex Overseas has its Manufacturing and R&D facility in Tarapur which is 100 Km from Mumbai.

Sarex Overseas is the GMP complied manufacturing facility. Many multinational companies have audited its facility as per ICH Q7-GMP guideline and Sarex is their approved Vendor. Sarex is certified by ISO 9001, ISO 14001, and OHSAS 45001 by URS, UK. Besides Sarex has Ecovadis GOLD rated Certificate for business sustainability.

Sarex Overseas believes that People are their biggest strength and has most of the people working for many years at Sarex. Sarex Overseas has nearly 400 employees at various locations.

Over the years Sarex Overseas has become one of the largest leading manufacturer of Triazine based UV absorbers and light stabilizer and intermediates which are used in many Industries used as additive in plastics and coatings, Textile industry, Agro films, personal care industry to enhance their durability, colour fastness and performance. These UV absorbers are superior in their class as these have very low volatility at high process temperature of the plastics.

Sarex specializes in producing high value fine chemicals. Besides regular products, Sarex develop new products based on customer's requirements. R&D centre plays crucial role in handling complex chemistry and developing newer technologies. Other than additives for Plastic and Coatings Sarex Overseas also manufacture some API Intermediate as well as the contract manufacturer of the Fine Chemicals. Sarex is the market leader in Pharmaceutical intermediates of anti-diabetic API Pioglitazone Hydrochloride in India.

Sarex has a state of the art manufacturing facility with variety of unit operations. The entire plant operations is automated except solid charging / discharging using control system. Sarex Overseas have total 52 Reactors, in which 26 are Glass lined Reactors and 26 are Stainless Steel Reactors having 630 Lit. to 10 KL capacity. Sarex Overseas have in house Primary, Secondary & Tertiary Effluent Treatment facility with Zero Liquid Discharge arrangement for liquid effluent.

Sarex has in-house Quality control development with HPLC, GC, UV-Vis Spectrophotometer, FTIR and many more analytical instruments with trained and skilled workforce. Sarex has in-house R&D facility with 8 fume hoods, rotary evaporator, Glass reactor etc. with high skilled & qualified manpower.



Sarex is having adequate scrubbing arrangement to entrap gaseous emission.

Safety is one of the most important culture of Sarex. Utmost care has been taken while designing, operating and maintaining the plant. Majority of the safety is already built in the design of the plant and automation. Sarex is concerned with environment and committed to EHS (Environment, Health and safety).

Intellectual property rights and confidentiality is on the top priority list of Sarex.



## Sarex Overseas is engaged in the Bulk manufacturing and

- Our company is largest manufacturer of antidiabetic Pioglitazone Hydrochloride intermediates 5 Ethylpyridine-2-ethanol and 2,4-Thiozolidenedione in India.
- Our company is Largest manufacturer of Triazine UV absorbers for Plastics, coatings additive, Textile industry and personal care industry India.
- Bulk chemical manufacturer for Pharmaceuticals, Plastics, Coatings, Electronics, Dyes & Pigment industries, Photoinitiator, Resin Raw materials, Antioxidants and Flame retardants.

Sarex not only avails you with the exceptional chemicals, but also shoulders the responsibility of after sales service. Thus, we provide thorough going service through our Technical support. Our quality analysts scrutinize each & every product before its delivery. We value your money &endeavour to bring you the optimum product service in exchange of that.

We are one of the India's largest chemicals exporter & major portion of our produce is exported to more than 40 countries, primarily to the USA & Europe where our products have been well received & we have been successful in nurturing excellent relationships with our clients. We have been acclaimed a lot many times for our noteworthy range of chemicals.





#### Sarex stands for quality products!

## Importance of UV Filters for Personal care



unscreens are used to protect the human skin against harmful UV radiation. Today there is a trend toward higher sun protection factors (SPF) and better UV protection.

UV absorbers, also known as UV filters, play a crucial role in the personal care industry, particularly in products like sunscreens and other sun protection formulations. These UV absorbers are designed to protect the skin from harmful ultraviolet (UV) radiation present in sunlight.

Here are some key reasons why UV absorbers are of significant importance in the personal care industry:

#### **PROTECTION AGAINST UV RADIATION**

UV radiation from the sun is a known cause of various skin problems, including sunburn, premature aging (photoaging), and an increased risk of skin cancer. UV absorbers work by absorbing, reflecting, or scattering UV rays, providing a shield for the skin against these harmful effects. Ultraviolet A (UVA) has a longer wavelength. It is associated with skin aging. Ultraviolet B (UVB) has a shorter wavelength. It is associated with skin burning.

#### **PREVENTING SUNBURN**

One of the immediate consequences of excessive UV exposure is sunburn. UV absorbers help prevent sunburn by reducing the amount of UV radiation that penetrates the skin and causes damage.

#### **ANTI-AGING PROPERTIES**

Prolonged exposure to UV radiation can lead to premature aging of the skin, resulting in wrinkles, fine lines, and age spots. UV absorbers can slow down the aging process by minimizing UV-induced damage to the skin's collagen and elastin fibers.

#### **DECREASED RISK OF SKIN CANCER**

The most severe consequence of long-term UV exposure is an increased risk of skin cancer, including melanoma, basal cell carcinoma, and squamous cell carcinoma. Regular use of products with UV absorbers can significantly reduce this risk.

#### **MAINTAINING SKIN HEALTH**

UV absorbers not only protect against immediate damage but also contribute to overall skin health. By shielding the skin from harmful UV rays, these agents help maintain the skin's natural barrier function and hydration levels.

#### **ENHANCED PRODUCT STABILITY**

Many cosmetic and personal care products are sensitive to UV radiation and can degrade when exposed to sunlight. UV absorbers can also be used in various formulations to improve the stability and shelf life of the products.

#### **BROAD-SPECTRUM PROTECTION**

Some UV absorbers provide broad-spectrum protection, meaning they can block both UVA and UVB rays. UVA rays contribute to aging effects, while UVB rays are responsible for sunburn. Broad-spectrum protection ensures comprehensive defence against various UV-related skin issues.

Sarex Offers range of UV Filters and intermediates for Personal care industry which has photo stability and very high photo stability and very high UVA and UVB-absorption capacity which are environment friendly and better in performance, and non-toxic. These UV Filters are highly efficient at low concentration and helps to prevent long term skin damage.

UVA: UV Rays with longer wavelength UVB: UV Rays with shorter wavelength

# **Exploring Sun Protection Factor (SPF)**

n the pursuit of healthy skin, safeguarding it from the sun's harmful ultraviolet (UV) radiation is a crucial step. Sun Protection Factor (SPF) is a term commonly associated with sunscreen products, Sun Protection Factor (SPF) is a critical factor in safeguarding your skin from the damaging effects of ultraviolet (UV) radiation. As the primary defense against sunburn and skin damage, understanding SPF and its implications is essential for making informed choices about sunscreen use.



#### **WHATIS SPF**

SPF is a numerical measure of a quantify the effectiveness of sunscreen in shielding the skin against ultraviolet radiation. The SPF value indicates how much longer you can stay in the sun without getting burned while wearing the sunscreen, compared to staying in the sun without protection.

The SPF value primarily reflects the level of UVB (ultraviolet B) protection provided by the sunscreen. UVB rays are responsible for causing sunburn and can contribute to skin damage.

#### **UNDERSTANDING SPF RATINGS**

#### LOW SPF (SPF 15-30)

These sunscreens provide moderate protection and are suitable for daily activities with limited sun exposure.

#### MODERATE SPF (SPF 30-50)

This range offers better protection and is recommended for outdoor activities, especially when spending extended periods in the sun.



#### HIGH SPF (SPF 50+)

Sunscreens with SPF 50 or higher offer strong protection against UVB rays. They are particularly useful in intense sun conditions or for individuals with fair or sensitive skin.

### BENEFITS OF UV ABSORBERS FOR SPF ENHANCEMENT

#### **AMPLIFIED SUNSCREEN EFFICACY**

The primary role of UV absorbers is to enhance the SPF of sunscreens. When UV absorbers are integrated into sunscreen formulations, they increase the sunscreen's ability to block UV radiation, thereby raising its SPF value.

#### **EXTENDED PROTECTION SPECTRUM**

Different UV absorbers target specific UV wavelengths. By combining multiple UV absorbers with varied absorption profiles, sunscreens can provide a broader spectrum of protection against both UVA and UVB radiation.

#### **IMPROVED STABILITY**

UV absorbers can enhance the stability of sunscreen formulations. They help prevent the degradation of active sunscreen ingredients when exposed to UV radiation, ensuring that the sunscreen remains effective overtime.



#### APPOLO-324 (BEMT) - 2,4-Bis[4-(2-ethylhexyloxy)-2-hydroxyphenyl]-6-(4-methoxyphenyl) -1.3.5-triazine

Product Code : 001157 CAS No : 187393-00-6 Molecular formula: C38H49N3O5

Molecular weight : 627,81

Safety &

Ω1

02

03

Transit hazards : Non Hazardous Substance

Application : It is a preservative-free, high performance

broad-spectrum UV filter. It provides good

UVA protection and photo-stability. It is suitable for formulations with innovative sensory profiles.

**Typical Properties** 

Physical Appearance: Yellow Fine to Coarse Powder

Purity (HPLC) : NLT 98,0% Moisture Content (KF): NMT 0.50% Melting Point : 75-80 °C

**Annual Capacity** : 50 MT

#### APPOLO-T 150 (EHT) - Ethylhexyl Triazone

Product Code : 011296 CAS No : 88122-99-0

Molecular formula :  $C_{48}H_{66}N_6O_6$ 

Molecular weight : 823.07

Safety & Transit hazards : Non Hazardous Substance

: EthylhexylTriazone is used in sunscreen Application

formulations as a UV filter to block out

harmful ultraviolet light,

#### **Typical Properties**

Physical Appearance: White To Off White Powder

: NLT 98.0% : 121.0 to 128.0 °C Melting Point

: 70 MT **Annual Capacity** 

#### SARASORB DHHB - Diethylamino Hydroxybenzoyl Hexyl Benzoate

Product Code : 011319

CAS No : 302776-68-7

Molecular formula: C24H31NO4 Molecular weight : 397.50

Safety & Transit hazards : Non Hazardous Substance

**Application** : It is an organic compound used in sunscreens

to absorb UVA radiation.

It is a component of cosmetic emulsion

with UV protection.

#### **Typical Properties**

Physical Appearance: White To Off White Powder

: NLT 98.0% Purity Melting Point : 53.0 to 57.0° C

: 70 MT **Annual Capacity** 

#### Disclaimer

Typical properties should not be considered as specification

Product covered by valid patents are not offered or supplied for commercial use.

The Patent position should be verified by the customer.

Products currently covered by valid US patents are offered for R&D use in accordance with 35 USC 271 (e) (l).

Above information is given in good faith and without warranty.

Given end use / API available in public domain, customer need to verify.

#### Annual Capacity



#### APPOLO HEB (DBT) - Diethylhexyl Butamido Triazone

**Product Code** : 011318 CAS No : 154702-15-5 Molecular formula: C44H59N7O5

Molecular weight : 765.98

Safety &

Transit hazards : Non Hazardous Substance

Application : It is a triazine based organic compound that readily absorbs UVA and UVB radiation.

It is commonly found in sunscreen and

other sun care products.

#### **Typical Properties**

**Typical Properties** 

Purity

Meltina Point

**Annual Capacity** 

Physical Appearance: White To Off White Powder

Physical Appearance: White To Pale Yellow Solid

: NLT 97.0%

: 100 MT

: 195.0 to 198.0 °C

: NLT 98.5% Purity Melting Point : 90.0 to 110.0° C

**Annual Capacity** : 50 MT

06

N<sub>4</sub>

#### SARASORB M (MBBT) - 2,2'-Methylenebis[6-(2H-benzotriazol-2-yl)-4-(1,1,3,3 -tetramethylbutyl)phenol]

Product Code : 011320

: 103597-45-1 CAS No.

Molecular formula :  $C_{41}H_{50}N_{4}O_{2}$ 

Molecular weight : 658.88

Safety &

Transit hazards : Non Hazardous Substance

: It is a preservative-free, photo-stable,

high performance broad-spectrum UV-A and UV-B filter.

Application

#### SARASORB MC 80 - Ethylhexyl methoxycinnamate

Product Code : 5466-77-3 CAS No

Molecular formula: C, H, O,

Molecular weight: 290,40

**Typical Properties** 

Physical Appearance: Colorless to Yellow to clear liquid

: NLT 98.0% Purity : 140-150 °C **Boiling Point** 

**Annual Capacity** 

Transit hazards

: Non Hazardous Substance

: Ethylhexyl methoxycinnamate is a lipophilic liquid and the most frequently used UVB filter. It is approved worldwide and can be readily incorporated in all formulation types.

It is liquid form makes it an excellent solvent for other crystalline UV filters in powder form such

as DHHB. EHT or BEMT.

#### Disclaimer

Safety &

Application

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#### Annual Capacity



#### ETONEAMINE - 2-Ethylhexyl-4-aminobenzoate

**Product Code** : 011460 CAS No : 26218-04-2 Molecular formula: C15H23NO,

Molecular weight : 249.35

Safety &

Application

**N7** 

Transit hazards : Non Hazardous Substance

: 2-Ethylhexyl-4-aminobenzoate is an intermediate in the synthesis of Ethylhexyl Triazone,

used in sunscreen formulations as a UV filter to block out harmful ultraviolet light.

#### APPOLO-125 - 2,4-Bis(2,4-dihyroxyphenyl-5-(4-methoxyphenyl)-1,3,5-triazine

Product Code : 001344 CAS No : 1440-00-2 Molecular formula :  $C_{22}H_{17}N_3O_5$ 

Molecular weight: 403.38

Purity (HPLC)

Loss on Drying

Annual Capacity

**Typical Properties** 

**Typical Properties** 

**Typical Properties** 

**Annual Capacity** 

Purity Melting Point

Physical Appearance: Pale Orange to Brown Solid

: NLT 98%

: 47-48°C

: 20 MT

Physical Appearance : Light Yellow powder

: Min 98% : NMT 2.0%

: 200 MT

: Non Hazardous substance

: It is intermediate of Bemotrizinol

which is used in sun screen creams In cosmetics

#### APPOLO-125 (T) - 2-(4-Methoxyphenyl)4,6-bis-(2,4-dihydroxyphenyl)-1,3,5-triazine

Product Code : 010265 : 1440-00-2 CAS No. Molecular formula: C22H17N3O5 Molecular weight: 403.38

Physical Appearance: Light Yellow powder

: NMT 2,00% Loss on Drying Purity (HPLC) : NLT 92.0%

Identification (HPLC) : Should Comply The Test

: 80 MT

Safety &

Safety &

Application

09

Transit hazards

Transit hazards : Non Hazardous substance Annual Capacity

: It is intermediate of Bemotrizinol Application

which is used in sun screen creams In cosmetics

#### Disclaimer

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Product covered by valid patents are not offered or supplied for commercial use.

The Patent position should be verified by the customer.

Products currently covered by valid US patents are offered for R&D use in accordance with 35 USC 271 (e) (l).

Above information is given in good faith and without warranty

Given end use / API available in public domain, customer need to verify.

#### Annual Capacity

#### **PRODUCT LIST OF UV FILTERS FOR PERSONAL CARE**

#### APPOLO-122 - 2,4-Dichloro-6-(4-methoxyphenyl-1,3,5-triazine

**Product Code** : 010030 CAS No : 90723-86-7 Molecular formula: C10H7Cl2N3O Molecular weight : 256.09

Safety &

10

Transit hazards : Non Hazardous Substance

**Application** : It is Intermediate of UV absorber. **Typical Properties** 

Physical Appearance: Off white to Light Yellow Powder

Purity (HPLC) : NLT 98% Moisture (KF) : NMT 0.5%

: 150 MT Annual Capacity

#### SARASORB TDSA - Terephthalylidene dicamphor sulfonic acid (TDSA)

**Typical Properties** 

**Annual Capacity** 

Product Code : 011548 CAS No : 92761-26-7

Molecular formula :  $C_{28}H_{34}O_8S_2$ 

Molecular weight : 562.70

Physical Appearance: Pale Yellow Powder

: 75 MT

Identification (HPLC) : Identical Purity : NLT 98%

Safety &

12

Transit hazards : Non Hazardous substance

: It is an organic UV filter added to sunscreen

Application cosmetics products to absorb UVA radiation.

#### SARASORB PBSA - Phenylbenzimidazole Sulfonic Acid (PBSA)

**Under Development** 

**Under Development** 

Product Code : 27503-81-7 CAS No.

Molecular formula :  $C_{13}H_{10}N_2O_3S$ Molecular weight : 274.30

**Typical Properties** 

Physical Appearance: White to off white powder

Identification (HPLC) : Identical : NLT 98% Purity

Safety & **Annual Capacity** : 20 MT

: It is a water-soluble sun filter that offers Application

: Non Hazardous substance

protection against UV-B and short range UV-A radiation.

#### Disclaimer

Transit hazards

Typical properties should not be considered as specification.

Product covered by valid patents are not offered or supplied for commercial use.

The Patent position should be verified by the customer.

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#### Annual Capacity

# Compliant Quality Management System ICH Q7-GMP



#### **QUALITY MANAGEMENT SYSTEM**

- Sarex have Independent Quality Unit, QA and QC.
- Total 18 employees are working in our Quality Unit.
- BMR issued by QA to production through SAP and having auto generated unique batch serial number.
- Review and approval of quality related documents:
  - Master BMR
  - Qualification
  - Validation protocols
- We have department wise Standard operating procedures (SOPs).
- Total 410 SOP'S are in place.

SR. NO.	NAME OF THE DEPARTMENT	NO. OF SOPS AVAILABLE
01	Administration	12
02	Research and Development	10
03	Maintenance	61
04	Production	128
05	Quality Assurance	44
06	Quality Control	75
07	Stores	44
08	Safety	36
	Total SOP's	410

#### **BUILDING AND FACILITIES**

- Well maintained manufacturing facility Plant-2 and Plant-3 and Drying and Packing Area.
- **Drying and Packing** area is isolated by partitions to avoid cross contamination.
- This is controlled area through **AHU**.
- Well equipped warehouse facility for loading and unloading of containers.
- **Utility:** Hot Oil, Steam, Hot Water, Cooled Water, Chilled Water and Brine.
- To maintain temperature and humidity in Drying and Packing Area we have Air Handling Units and Ventilation Units.



#### **LIST OF MAJOR ANALYTICAL INSTRUMENTS**

SR. NO.	NAME OF THE INSTRUMENT	NO. OF INSTRUMENT	MAKE
01	High Performance Liquid Chromatography (HPLC)	5	Shimadzu
02	Gas Chromatography (GC)	4	Shimadzu
03	UV Spectrophotometer	2	Shimadzu
04	Karl-Fischer (KF)	2	Metrohm Ltd.
05	Potentiometric Auto Titrator	2	Metrohm Ltd.
06	Melting Point Apparatus	2	Veego and SRS
07	pH meter	2	Spectralab
08	Electronic Moisture Analyzer	2	Shimadzu
09	Fourier Transformer Infrared	1	Shimadzu









#### **AUTOMATION: COMPUTERIZED SYSTEMS**

- Our manufacturing facility having Automation such as SCADA (PLC) which is connected with respective equipment to control process conditions / parameters.
- Our inventory is being maintained by SAP computerized system.
- Our production planning also done through SAP.
- We are using SAP for maintaining of master BMR and issuance of BMR.
- Our QC instruments are connected and operated through various software.





#### **DOCUMENTATION AND RECORDS**

- Sarex have adequate facility for storage of documents in QA/QC.
- Manufacturing related documents are prepared, reviewed, approved and distributed according to SOP.
- All production, control and distribution records are retained for at least one year after the retest/expiry date of the batch.
- Batch Manufacturing records.
- Equipment cleaning records.
- Laboratory control & Calibration records.
- Temperature monitoring records.

#### **MATERIAL MANAGEMENT**

- Sarex is following procedure for Receipt, Identification, Quarantine, Storage, Handling, Sampling, Testing, and Approval or Rejection of materials.
- Purchasing raw material from Approved Vendors.
- Materials are being stores as per status such as Undertest, Approved and Rejected (if any).
- Raw material dispatched as per FIFO.
- Finished goods dispatched as per procedure and ensure proper packing as per checklist.





## **EQUIPMENT SUMMARY**REACTORS, FILTRATION EQUIPMENTS & DRYERS

SR. NO.	EQUIPMENT DETAILS	CAPACITY	QUANTITY
REACTORS - GLR			
01	Glass Lined Reactors	5KL & above	09
02	Glass Lined Reactors	Less than 5KL	17
		Total	26
REACTORS - SLR			
01	SS316 Reactors	5KL & above	11
02	SS316 Reactors	Less than 5KL	15
		Total	26
		Grand Total	52

SR. NO.	EQUIPMENT DETAILS	CAPACITY	QUANTITY
FILTRATION EQUIPMENTS			
01	Centrifuge (Halar Coated)	48"	07
02	Centrifuge (SS316)	48"	07
03	Agitated Nutsche Filter (SS 316)	6 to 8 KL	07
04	Agitated Nutsche Filter (HASFC ALLOY)	6 KL	01

SR. NO.	EQUIPMENT DETAILS	CAPACITY	QUANTITY
DRYERS			
01	Vaccum Tray Dryers	48 Trays	01
02	Rotary Vacuum Paddle Dryer	3 to 5 KL	07
03	Tray Dryers	48 Trays	01



## OUR CERTIFICATIONS





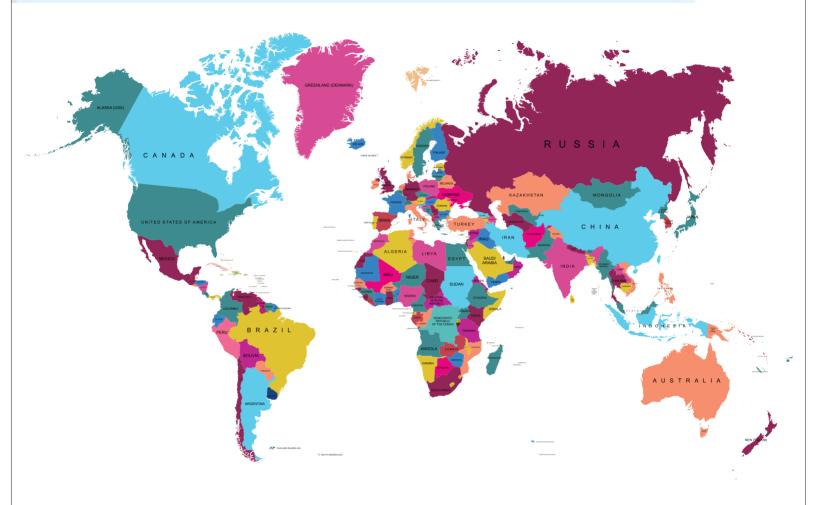








## **COUNTRIES / REGIONS WHERE SAREX IS SELLING**



- 01. Germany
- 02. Switzerland
- 03. USA
- 04. Netherlands
- 05. Indonesia
- 06. China
- 07. South Korea
- 08. Belgium
- 09. Taiwan
- 10. Italy

- 11. Spain
- 12. Hong Kong
- 13. Turkey
- 14. France
- 15. Japan
- 16. Brazil
- 17. United Kingdom
- 18. Colombia
- 19. Slovakia
- 20. Portugal and many more..



APART FROM ABOVE MENTIONED PERSONAL CARE PRODUCTS, SAREX DOES CONTRACT MANUFACTURING FOR LARGE MULTINATIONAL COMPANIES UNDER SECRECY AGREEMENT, THOSE PRODUCTS ARE NOT LISTED.

In today's rapidly evolving industries, the demand for specialized chemicals continues to grow. Fine chemicals play a pivotal role in various sectors, including pharmaceuticals, agrochemicals, electronics, and more. However, developing and manufacturing these chemicals require substantial resources, expertise, and infrastructure. This is where contract manufacturing of fine chemicals steps in as a strategic solution.

#### STATE-OF-THE-ART INFRASTRUCTURE

Our cutting-edge manufacturing facility is equipped with the latest technologies, enabling us to handle a diverse range of projects. From small-batch productions to large-scale manufacturing, our capabilities are designed to accommodate your requirements.

- Sarex has developed new products based on customer's requirements worldwide.
- R&D centre plays crucial role in handling complex chemistry and developing newer technologies.
- We develop & manufacture products under non-disclosure agreement.
- 50+NDA's/CDA's signed.
- 30+ Products Commercialize.
- We have manufactured compounds as per customer's requirement which is useful in semiconductor industry, organic light emitting diodes.

#### **REACTIONS WE CAN HANDLE**

Sarex offers over specialized reaction chemistry as below;

- Fridel Craft
- Condensation
- Catalytic Reduction (Hydrogenation) under pressure
- Grignard
- Oxidation

- Reduction
- Bromination
- Chlorination
- Acylation

and many more..

We are approved vendor of many European customers and regularly being audited by them for their stringent quality standard & EHS requirements.

## **THANK YOU**

GET IN TOUCH WITH US -

#### **CERTIFICATES OF ACCREDITATION**













ISO 45001:2018

ISO 14001:2015

ISO TWO STAR 9001:2015 EXPORT HOUSE

ECOVADIS GOLD STAR

UN GLOBAL COMPACT



#### **SAREX CORPORATE OFFICE, MUMBAI, INDIA**



#### **ADDRESS**

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#### **SOCIAL MEDIA**





