

Solar Panel cleaning unique chemical



# SOAR-G

## PROTECTION AGAINST INDUSTRIAL FLASHOVER

### HEAVY DUTY CHEMICAL FOR DUST, DIRT, FLASHOVER, DEBRIS & GRIME REMOVAL FROM SOLAR

We know that Solar Panel Cleaning is required for Optimum Performance. A solar panel typically consists of solar cells covered by a protective glass coating, and just like your car windshield – the longer it's outside – the more likely it will get dirty and need to be cleaned. Your system is expected to produce a certain amount of power during each month. A solar monitoring system can tell you if your system is off line or if it's not performing as expected and run diagnostic programs. Solar monitoring systems showing you how much power you've saved, how much CO2 you've saved, and how much money you've saved.

#### Why clean Solar panels?

Solar panels work by allowing light into the solar cells. The more light that hits a panel, the more power it will generate. Due to the upwards angle of solar panels, they are more prone to bird droppings and a build-up of general dust and dirt that does not wash off with just rain. This reduces the amount of light hitting the panel and reduces its output. As the projected energy figures claimed by solar panel manufacturers and installers are based on the optimum performance of clean solar panels, this build-up of dirt can adversely affect the panel's ability to meet those projections. So, it is important to clean solar panels in order to protect and maintain your investment. Regular solar panel cleaning will also help you to make the most of the government feed-in tariff. If their solar panels were not cleaned regularly, they would not run at their optimum performance. Solar panel cleaning is not necessary in some of the climate, but it is proved that solar panel cleaning is necessary in India or the countries where environment dust & flashover contamination is high.

#### Can It Improve Efficiency?

It has been proved that cleaning panel increases efficiency. Efficiency output would range from 5-60% in different sites. One of the contributing factors in the drop of efficiency in solar PV panels is the accumulated dust on the solar panel. In practice, dust must be removed from the surface of solar PV panels in order to ensure highest performance." Solar Energy Power Association notes that dirty solar panels can lose 20% of their energy output. The National Renewable Energy Laboratory puts that figure even higher, at 25%. Recent university research has shown that a dirty solar panel can lose 50% of its efficiency compared to a clean solar panel.

#### Why Have Solar Panel Cleaning from Sawariya Chemicals ?

We are one of the most experienced solar panel cleaning companies in India, we are the manufacturer of Solar panel cleaning chemical which can effectively remove dust & dirt from the surface easily. We clean solar panels safely and effectively and have positioned ourselves to offer a high quality professional solar panel cleaning service. So, in conclusion, why clean solar panels? Solar panels are prone to accumulating

dirt. Why is solar panel cleaning important? Solar panel cleaning keeps your warranty intact, helps your solar panels produce the maximum electricity and importantly, saves you more money in the long-term.

### Why Rainwater Will Not Clean Solar Panels?

Solar panel is like our car windscreen. It's prone to accumulate dust & dirt especially in industries where dust is the part of their normal life. Like windscreen doesn't remove airborne dust after rain also similarly visibility gets low when solar panels are not cleaned on regular basis. Film of dust & dirt don't allow proper sunlight to come inside thus efficiency get effected. Visibility through your windscreen is lost due to the loss of light. Therefore, the same principles hold true for solar panel cleaning. It is very important to maximize the light getting into the solar panel and in turn, increase your financial reward.

### Types of Installation

- Commercial Solar Panel
- Agricultural Solar Panel
- Residential Solar Panel

### Solar electricity is widely applied in

- Big Industries such as cement, power generation companies etc.
- Government Institutions
- Telecommunication
- Agricultural
- Water desalination and
- Building industry to operate lights, pumps, engines, fans, refrigerators and water heaters.



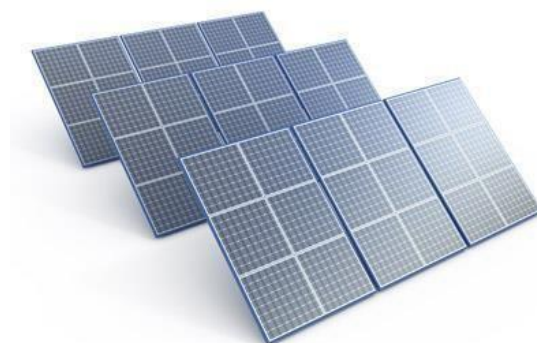
It is also important to regularly clean and maintain your solar panels to prevent the voiding any manufacturer or installer warranties on the system.

## PRODUCT DESCRIPTION

Solar Photovoltaic Maintenance is always a Challenge. We have solution

### What is SOAR-G

- is a strongest Solar Plates cleaning solution. Removes foreign deposits brought on by Industrial flashover. The solution would not bother your skin.
- No stirring required. Water soluble.
- Non-Toxic Non-hazardous & environment friendly.
- Removes Industrial flashover, dust, dirt & Debris from your "Solar Plates".



**CHARACTERISTICS**

Specially formulated to remove any accumulation of dirt and grime. Available in liquid form, It is water soluble, It is white to light yellow in colour, It has unusual property of removing flashover, dust, dirt, debris & grimes.

| Key Benefits of Clean Solar Panels | Advantages of SOAR G   |
|------------------------------------|--|
| Increase life of "Solar Panels"    | Cost Advantages: product is very cost effective & value for money. |
| Increases efficiency level.        | Process Advantages: easier to apply.                               |
| Maintain energy reliability.       | Environmental Advantages: safe for environment.                    |
| Maximize sunlight entry.           | Available in liquid.   |
| Save Money & Looks good.           |  |

| CONTAMINANTS AND THEIR SOURCE |   | CONTAMINANT SOURCE OF POLLUTION |  |
|-------------------------------|---|---------------------------------|--|
| <b>Metallic</b>               | <ul style="list-style-type: none"> <li>• Mineral handling processes</li> </ul>                                      | <b>Salt</b>                     | <ul style="list-style-type: none"> <li>• Coastal areas</li> </ul>  |
|                               | <ul style="list-style-type: none"> <li>• Mining handling processes</li> </ul>                                       |                                 | <ul style="list-style-type: none"> <li>• Salt Industries</li> </ul>  |
| <b>Coal</b>                   | <ul style="list-style-type: none"> <li>• Coal mining</li> </ul>   |                                 | <ul style="list-style-type: none"> <li>• High ways with deposit of snow where salt is used to melt the snow</li> </ul> |
|                               | <ul style="list-style-type: none"> <li>• Coal handling plants/thermal Plants</li> </ul>                             | <b>Cement</b>                   | <ul style="list-style-type: none"> <li>• Cement Plant</li> </ul>   |
|                               | <ul style="list-style-type: none"> <li>• Coal burning/brick kilns areas</li> </ul>                                  |                                 | <ul style="list-style-type: none"> <li>• Construction sites</li> </ul>   |
| <b>Volcanic ash</b>           | <ul style="list-style-type: none"> <li>• Volcanic activity areas</li> </ul>   |                                 | <ul style="list-style-type: none"> <li>• Rock quarries</li> </ul>  |
| <b>Defecation</b>             | <ul style="list-style-type: none"> <li>• Roosts of birds areas.</li> </ul>  | <b>Earth</b>                    | <ul style="list-style-type: none"> <li>• Plowed fields</li> </ul>  |
| <b>Chemical</b>               | <ul style="list-style-type: none"> <li>• Wide variety of chemical/process industries, oil, refineries...</li> </ul> |                                 | <ul style="list-style-type: none"> <li>• Earth moving on construction Projects</li> </ul>                              |
| <b>Smog</b>                   | <ul style="list-style-type: none"> <li>• Automobile emissions at highways crossing</li> </ul>                       | <b>Fertilizers</b>              | <ul style="list-style-type: none"> <li>• Fertilizer plants</li> </ul>  |
|                               | <ul style="list-style-type: none"> <li>• Diesel engine emissions at railway crossing/yards</li> </ul>               |                                 | <ul style="list-style-type: none"> <li>• Frequent use of fertilizers in Cultivated fields</li> </ul>                   |
| <b>Smoke</b>                  | <ul style="list-style-type: none"> <li>• Wild fire</li> </ul>   |                                 |  |
|                               | <ul style="list-style-type: none"> <li>• Industrial burning</li> </ul>  |                                 |  |
|                               | <ul style="list-style-type: none"> <li>• Agriculture burning</li> </ul>   |                                 |  |

**PROCEDURE OF APPLICATIONS**

Some solar panel manufacturers and installation companies have made solar panel cleaning a condition of their warranty therefore read warranty guideline carefully before application.

**Step 1:** Wet Solar Panels with water first then apply Sc-549 in the dilution with water as recommended.

**Step 2:** Wipe gently with Nylon Brush or Jute bag or professional solar panel brush to easily remove all grimes.

**Step 3:** Apply pressure water wash for best result and wipe dry it with cotton cloth.

 **PRECAUTIONS/ SAFETY MEASURE REQUIRED**

Although Sc-549 is very safe chemical but due to low ph in nature, we recommend to use Eye protecting glass, hand gloves & rubber shoes. Product is not harmful but it may cause some dryness on skin & to some people it may cause irritation.



**STORAGE:** Store in a cool & dry place. Keep away from direct sunlight.

 **ACTION IN CASE OF ANY HAZARD**

In case of Eye contact, rinse with water for 10-50 minutes in running water and then seek for medical attention if irritation persists.



**FIRE & EXPLOSIVE HAZARD DATA** Explosion / flammability: Non-Flammable.



**STANDARD PACKAGING:** Sc- 549 is available in two standard packing of 35 litres & 50 litres (plastic drum). Non standard packing is also available on different packing cost.

**Note:** you may consult for any difficulty which can be solved by chemicals.

